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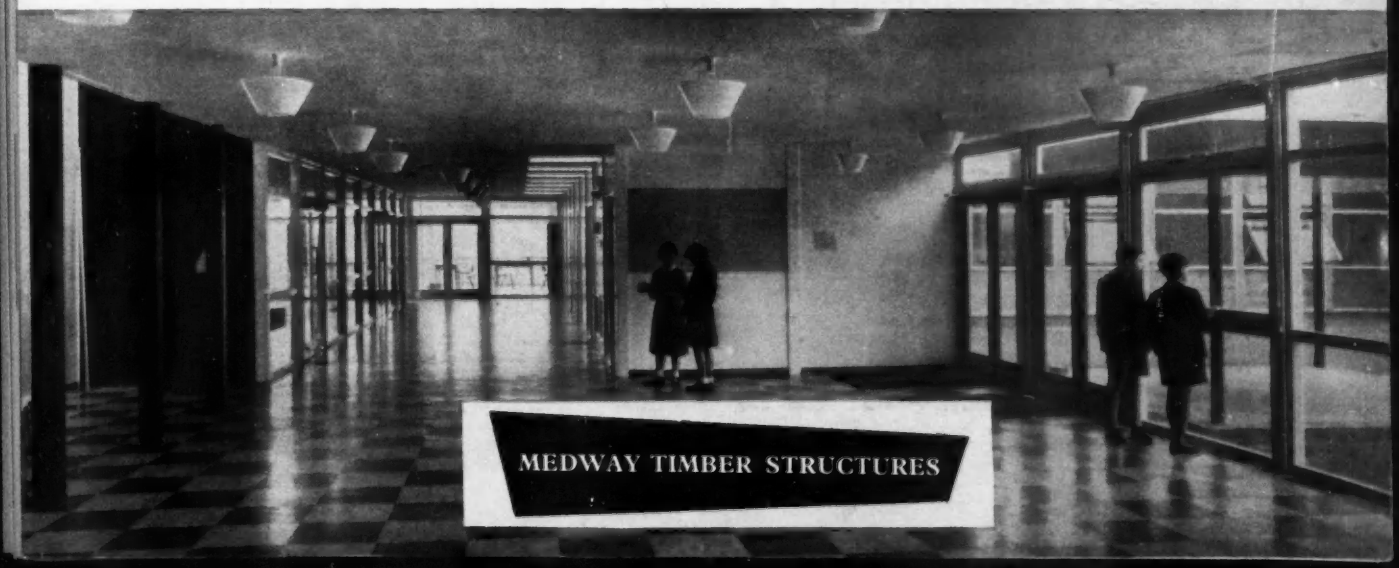

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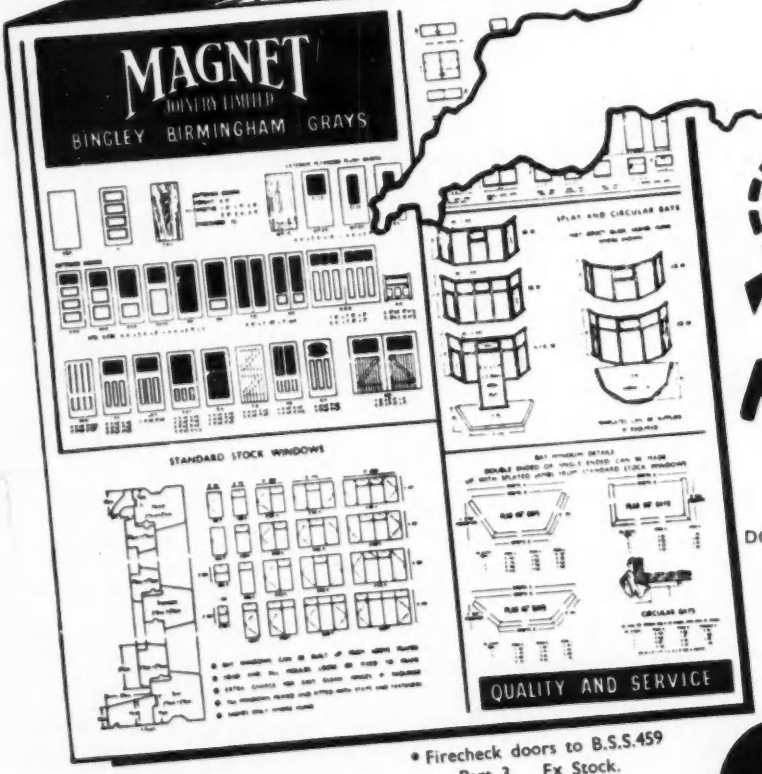

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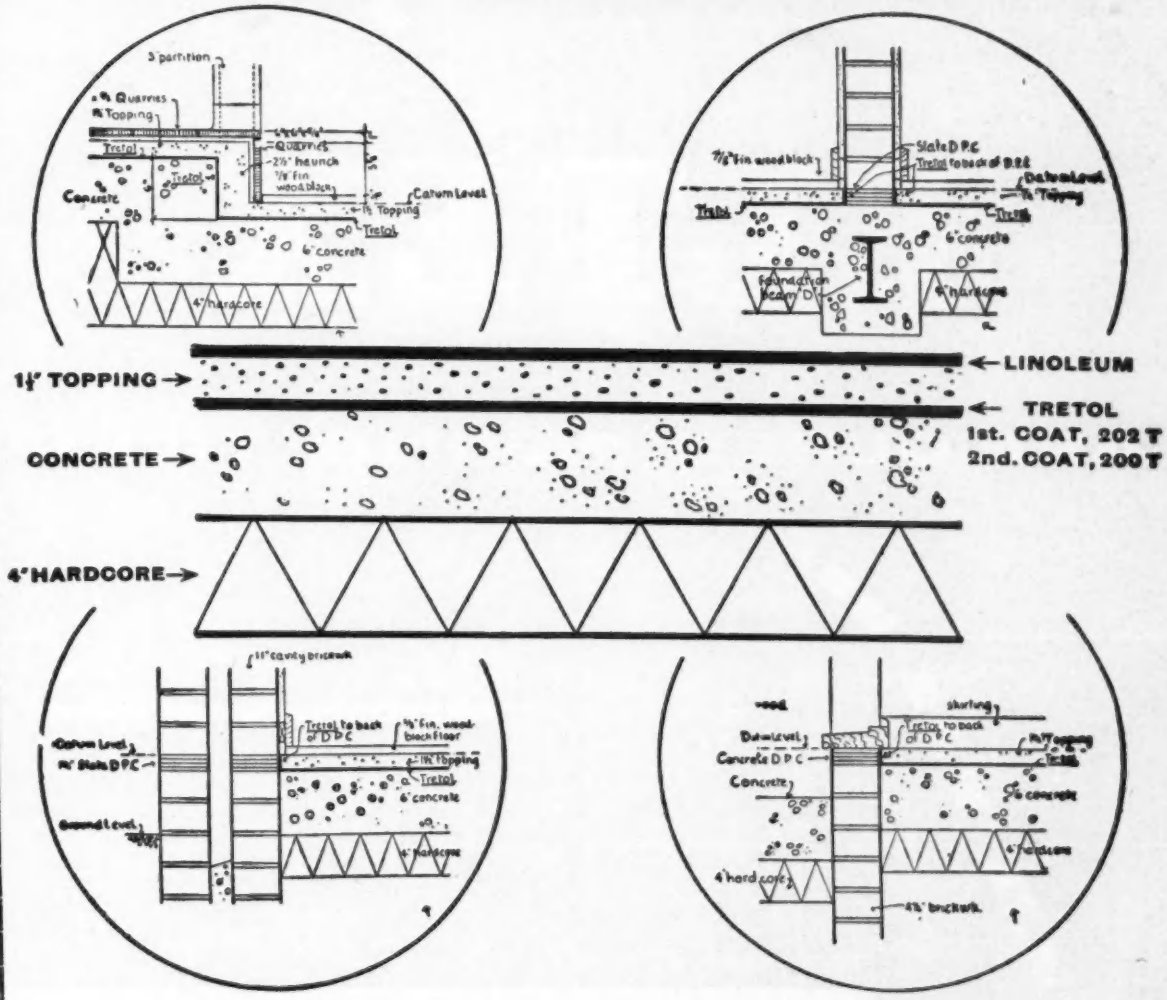
TRETOL SPECIFICATION SHEET **For your files**

BITUMEN MEMBRANES IN SOLID CONCRETE FLOORS



Where ground floors are to receive a floor covering, the use of a continuous Bitumen Membrane is essential. Not only is this necessary to prevent dampness, but also rising moisture *vapour*, the latter being injurious to most types of floor covering and to health.

Not always appreciated, but perhaps of major importance, it is the fact that **dry floors are warm floors.** Keep dampness well away from the final screed, and a valuable contribution is immediately made to better thermal insulation in domestic dwellings.

Tretol Pure Bitumen Solutions Nos. 202T and 200T applied COLD as first and second coats, have been used on many hundreds of thousands of houses under this specification by housing authorities thoughout the country.

Write for set of D.P.C. Membrane Specification Sheets

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And you're ready to move out

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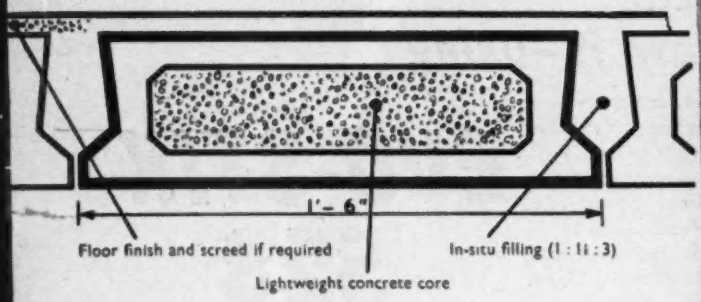
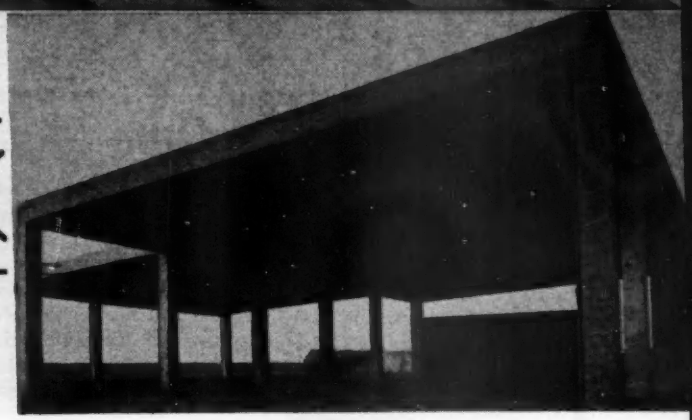
with built in HEAT & SOUND INSULATION at no extra cost

PRESTRESSED LIGHTWEIGHT CORE FLOOR UNITS





Precon manufacture a complete range of flooring. A distinctive feature of Precon flooring units is that the core is made of lightweight concrete to give excellent sound and heat insulating qualities.

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TAS/PRJ

GOOD ALL ROUND

FRONT ELEVATION OF WIGMORE STREET DEVELOPMENT

REAR ELEVATION OF THE DEVELOPMENT

Architect: CECIL H. ELSOM, F.R.I.B.A.

Contractors: HIGGS & HILL, LTD.

In design, appearance and in quality of work, this outstanding building in the heart of the West End of London is good all round. A good all-round material was also used for the erection of brickwork in the shape of Febmix Admix Mortar Plasticiser, the Architect obtaining greater durability by the fact of the mortar having increased resistance to repeated cycles of freezing and thawing and to the passage of water, while the Contractor benefited by reduction in material cost with improved plasticity and workability of the mortar, and a saving in handling and storage costs by the fact of each 40-gallon drum of Febmix Admix Mortar Plasticiser replacing 14½ tons of hydrated lime.

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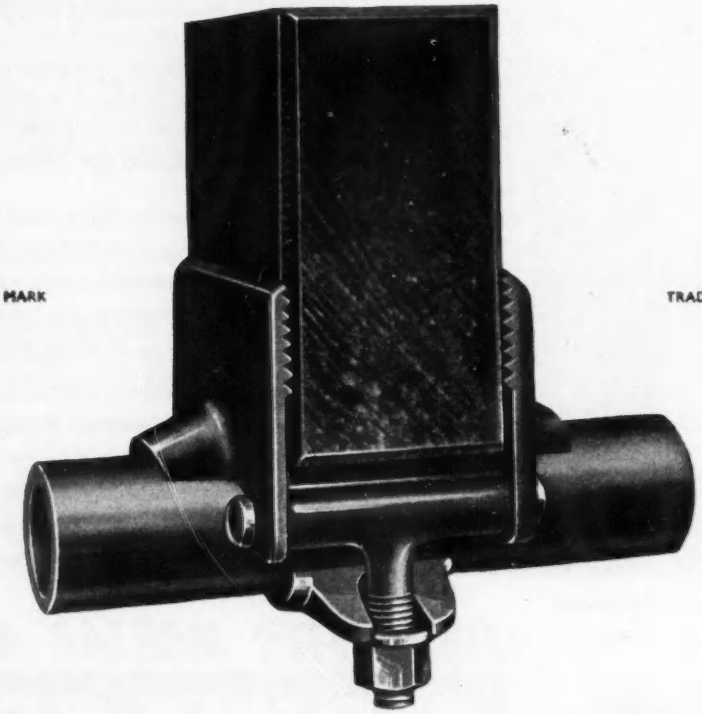

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Before you buy a Plastic seat make this test. Try to press your thumbnail into the surface. If you succeed, reject the seat, for ladies' suspender buckles—and other wear and tear—would soon make havoc of such a surface. Scratches harbour dirt and germs and ruin the seat's appearance.

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FASTER

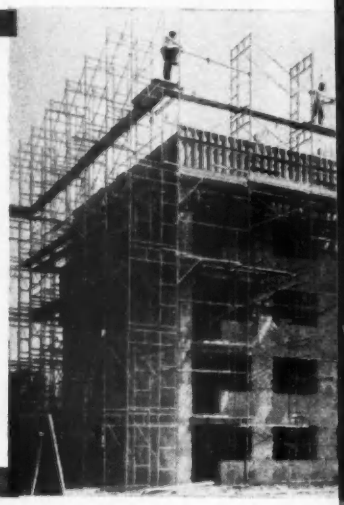
HOIST TOWER

Illustration on left is of a tower for a centrally slung hoist.

Contract by Reema Construction Ltd., Salisbury, for 14 blocks of multi-storey dwellings for the Leeds Corporation.

Architect: the late R. A. H. Livett, Esq., O.B.E., A.R.I.B.A.

Illustration below shows the full access that can be given at any level to suit scaffold.



Photograph by permission of J. Cave, Esq. B.Sc., M.I.C.E., F.R.I.C.S. Borough Engineer and Surveyor Hendon Borough Council

The first fabricated Hoist Tower produced in this country. It is especially designed to give the following advantages :-

1) Quickest erection — 50 ft. in 2 hours complete.
2) It is designed for unskilled labour.
3) Greater Stability and Strength.
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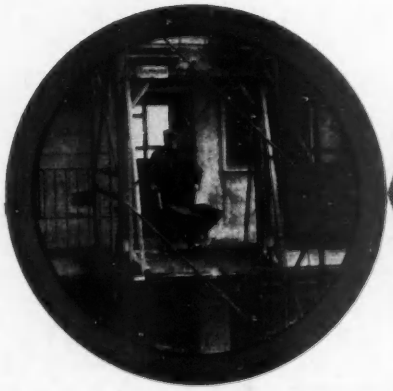

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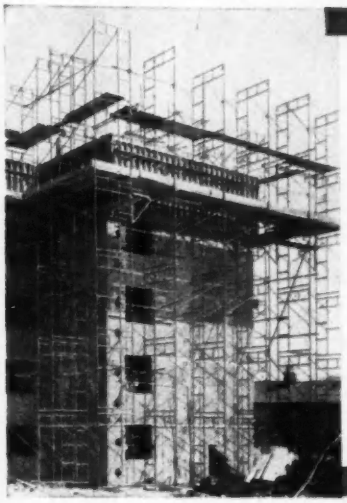
AIDS TO BUILDING



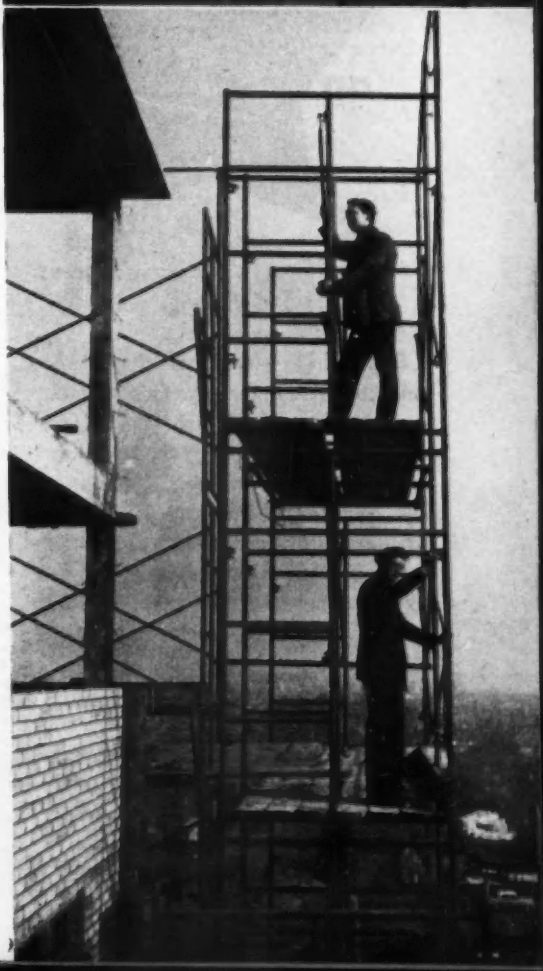
FULL PURPOSE 8′ 9″ UNIT FRAME

The illustrations on the right show the ease of handling storey height frames and the perfect working conditions given to the tradesmen, making increased productivity possible. No other scaffold gives such ideal working conditions together with increased stability, safety, speed of erection and economy of purchase.

Main Contractors:
Messrs. G. Wimpey & Co. Ltd.

Independent contractors' reports are now proving the advantages claimed for this new Safway access equipment.

1) Ease of handling and speed of erection.
2) Elimination of losses of tube and fittings.
3) The increase of tradesmens' productivity due to perfect working conditions.
4) The general overall resultant economy.



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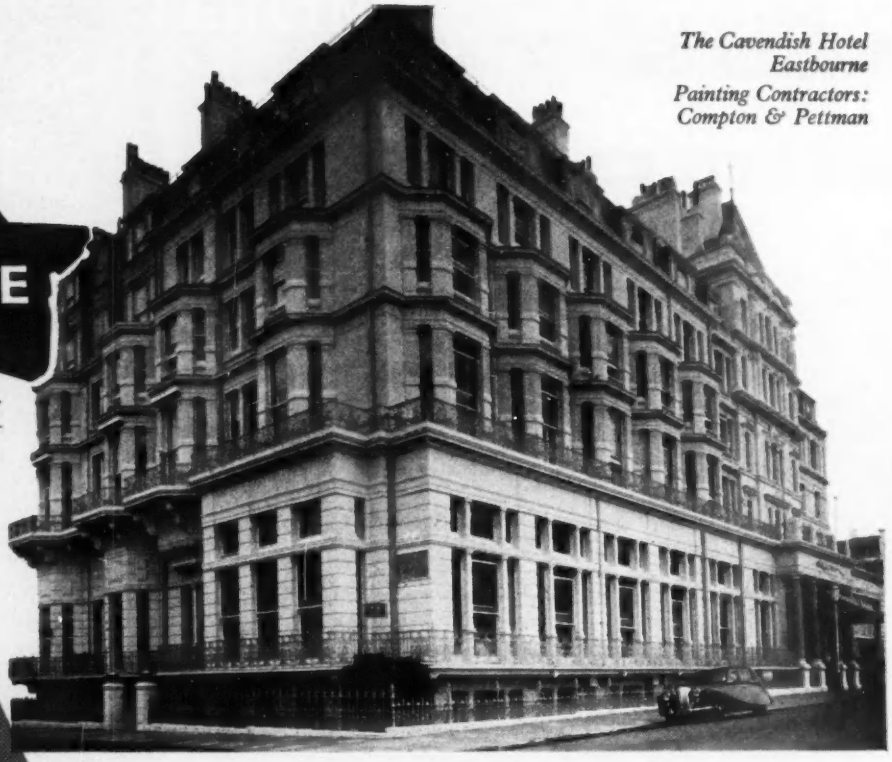

The Cavendish Hotel
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Specially formulated for outdoor work, and therefore far better than dual-purpose paints, Lillington's VELODEX P.V.A. Emulsion paint ensures quality exterior decoration at minimum cost. VELODEX can be applied to all outside walls—whether brickwork, concrete, renderings or asbestos cement sheets—and it has exceptional adhesive properties over existing coats of oil paints. It is simple to use, quick drying, durable, washable and unaffected by alkalis.

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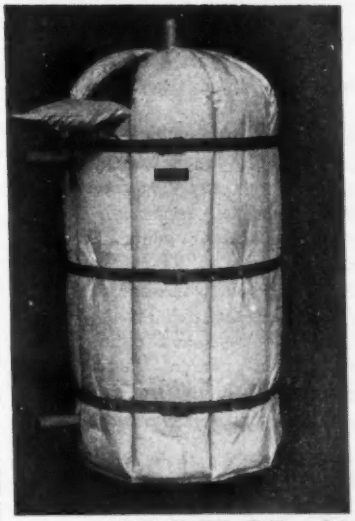

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THE ARCHITECT: As the aggregate is pre-mixed in the factory, strict adherence to specification is always assured. As this aggregate is Perlite, a considerable saving in dead-load may be achieved, so vital in the planning of multi-storey projects.

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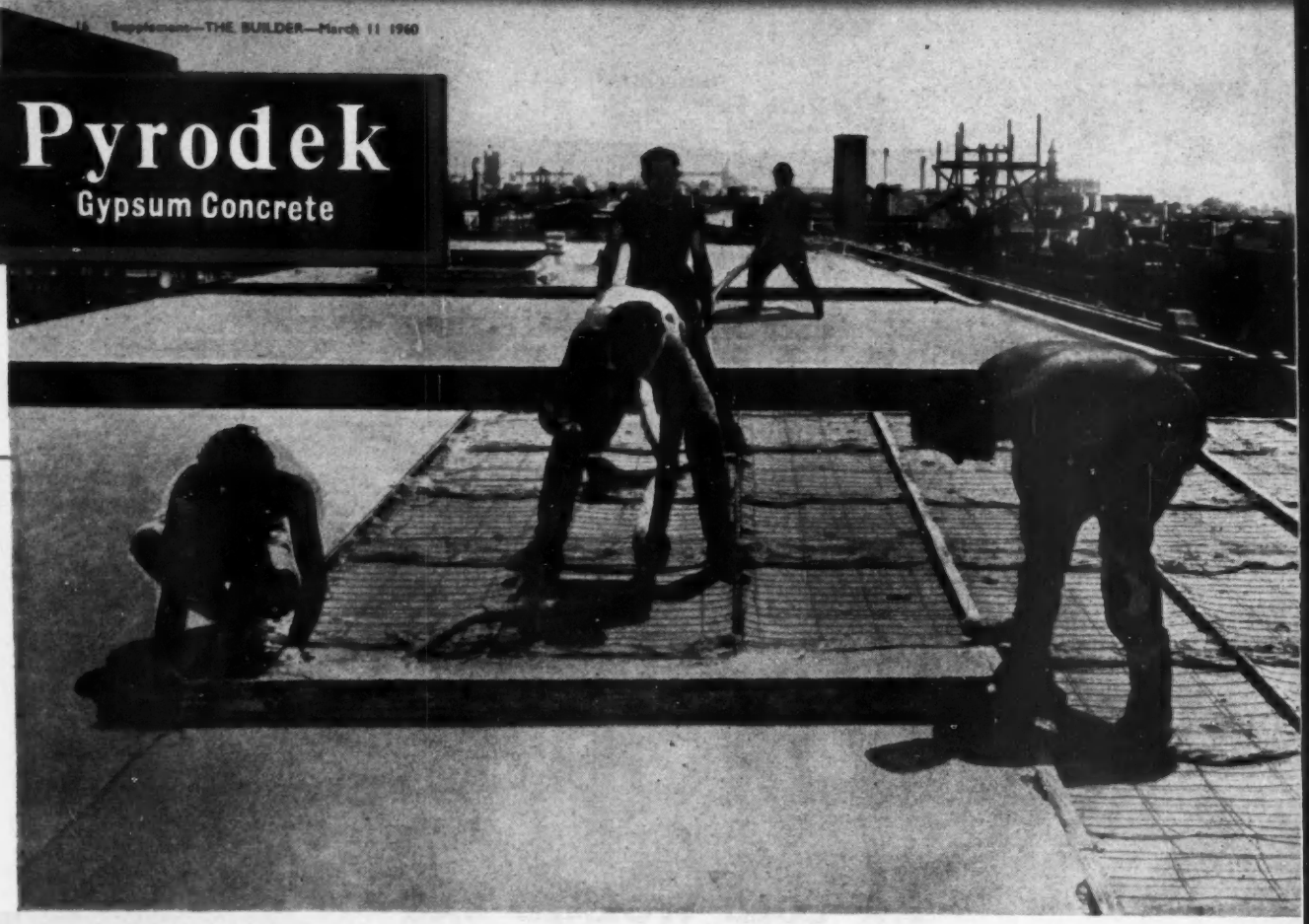
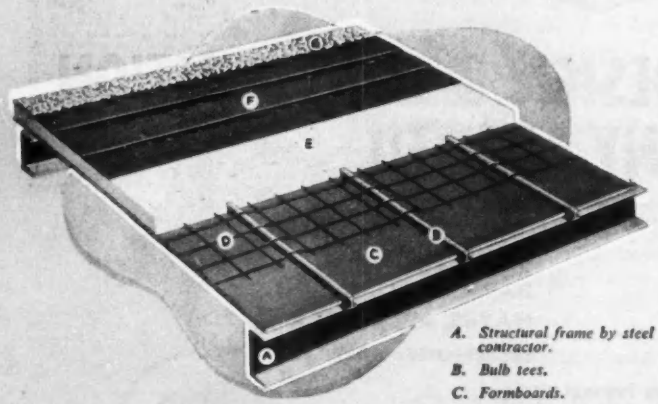


High speed construction by ANDERSON



A. Structural frame by steel contractor.
B. Bulb tees.
C. Formboards.
D. Galvanised reinforcing fabric.
E. Pyrodek gypsum concrete.
F. Built-up roofing.
G. Gravel finish.

Pyrodek is a high speed roof construction with exceptional fire-proof qualities.

Consisting of gypsum concrete pumped into place to a depth of 2″ on formboard and bulb tee sections, Pyrodek does not require shuttering and can be poured at the rate of up to 1,000 square yards a day so affording early cover for storage and for other trades.

The system has been awarded a 2 hour fire rating and is classified as Standard III Construction by the Fire Offices' Committee.

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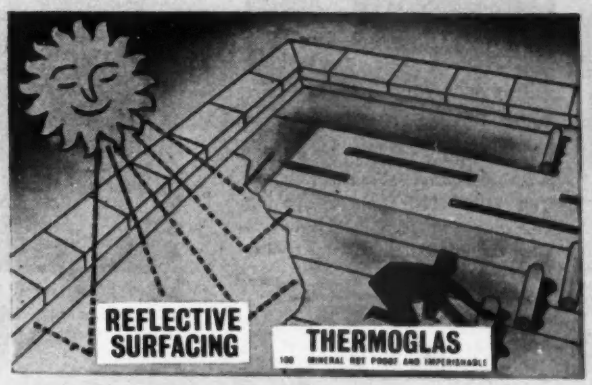
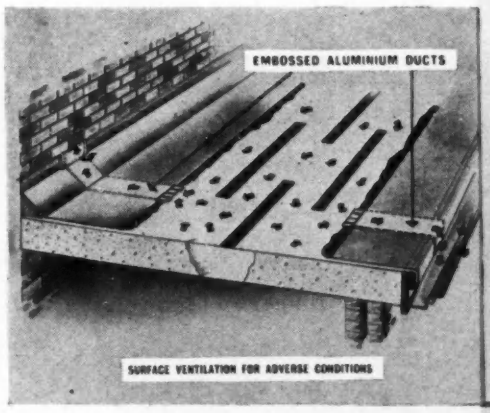
. . . a technique designed to protect the weather-proofing of flat roof structures against influences arising from :-

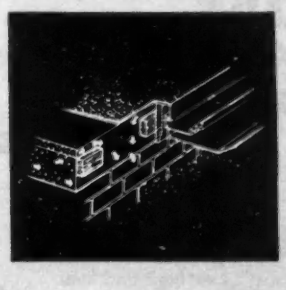
* **Moisture and air in insulation**
* **Heat build-up on insulation**
* **Water in lightweight concrete**
* **Roof movement**

Thermoglas is laid by the isolated system combining frame bonding and anchor strips to permit free vapour dispersal. The waterproofing is finished with a heavy stone surfacing to secure maximum reflectivity.



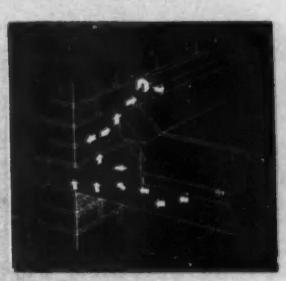
Where conditions are adverse surface ventilation is provided and metal ducts are fixed to relieve pressure to the outside air.





Drying in depth for extreme conditions is arranged at planning stage.

Typical detail is shown but others are available to suit design and advice will be given on request.



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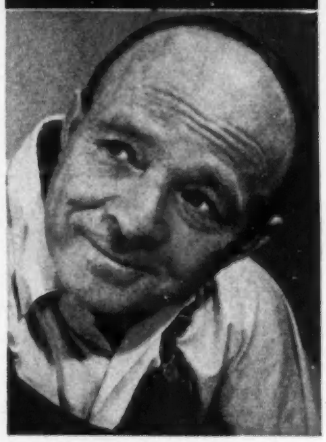
THOSE WHO SPECIFY IT...

THE ARCHITECT with an eye for efficiency also sees in the Lynx's clean-cut lines contemporary styling at its very best.

THOSE WHO INSTALL IT...



THE PLUMBER finds it easiest of all to fit; the concealed fixing is neat and simple.

THOSE WHO OWN IT...

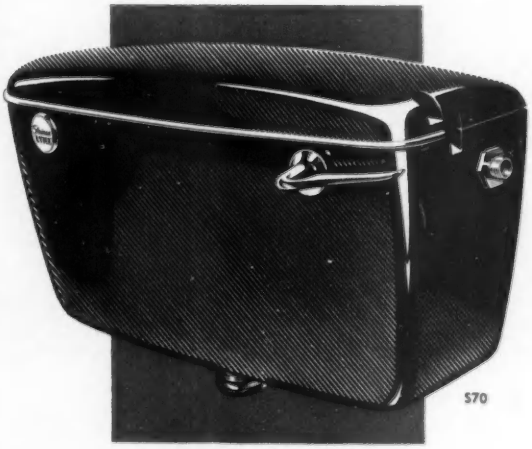
THE CUSTOMER is delighted to discover that such a handsome cistern also has the most discreetly quiet and dependable mechanism she's ever encountered.

...ALL ACCLAIM THE LYNX

Shires Lynx is today's most popular cistern, for replacements or new installations. Lynx high and low level cisterns are made of black Duranite—tough and durable, non-crazing, non-corrosive. The Kingfisher syphon mechanism gives a powerful flush: made of polythene—non-corrosive, non-ageing and unbreakable—it can be used in hard or soft water areas. It conforms to BSS 1125 and Water Works specifications. Capacities: 2, 2½ and 3 gallons.

EVERY GENUINE LYNX HAS THE NAME ENGRAVED ON THE CISTERN

Shires are the largest manufacturers of flushing cisterns in the world. They also make W.C. pans and seats, pipes, wash-basins and complete W.C. suites.



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" *Too much cheese at the party. We're dreaming of the future.*"

" The future, eh? Pretty impressive, isn't it?"

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P.4016

B

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Inserted between each lift whilst the concrete is being placed, Sealocrete P.V.C. Waterbar ensures there is no seepage of water through floor to wall and construction joints.

Sealocrete P.V.C. Waterbar is made of a special grade of unfilled Polyvinyl Chloride, is chemically inert, non-corrosive and resistant to ageing.

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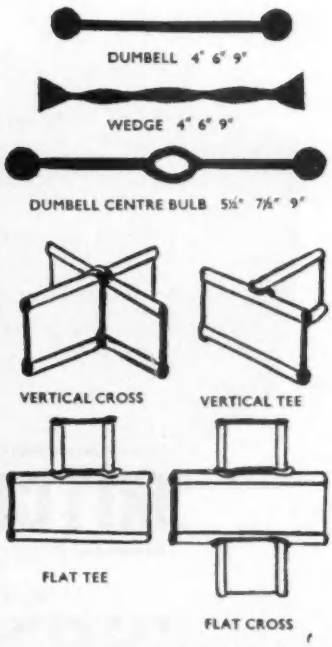

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SELF-ERECTING HOPPER

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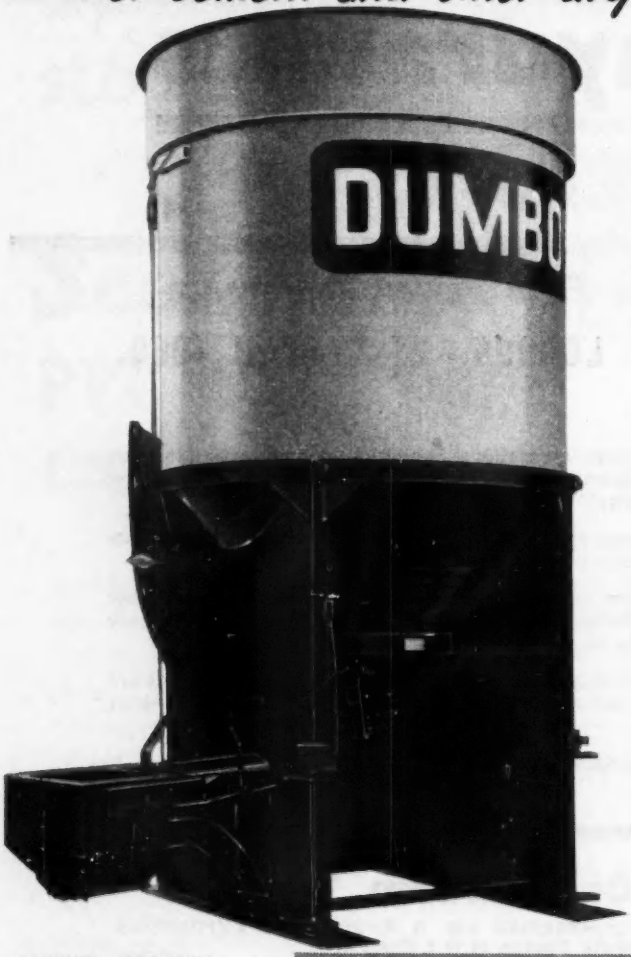

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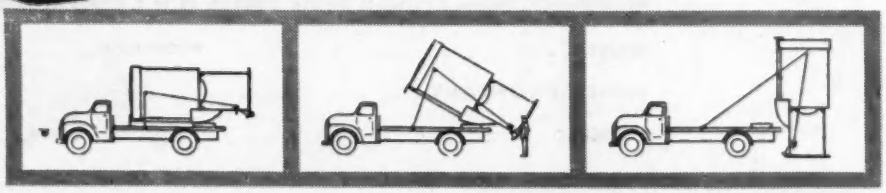

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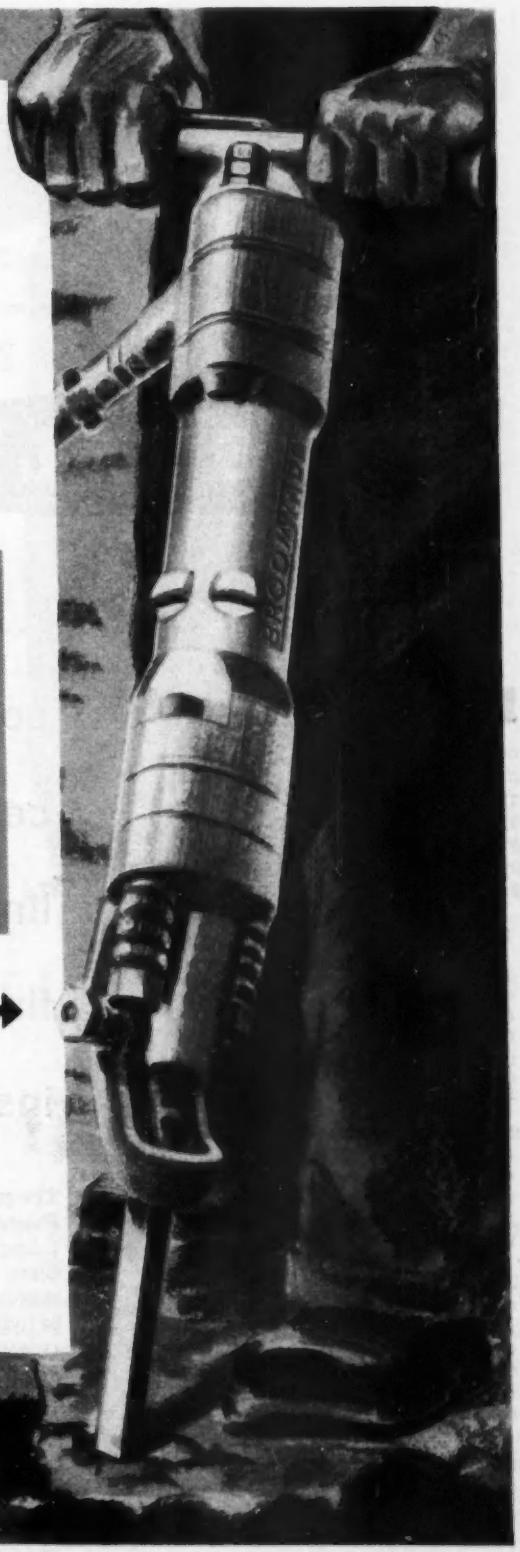

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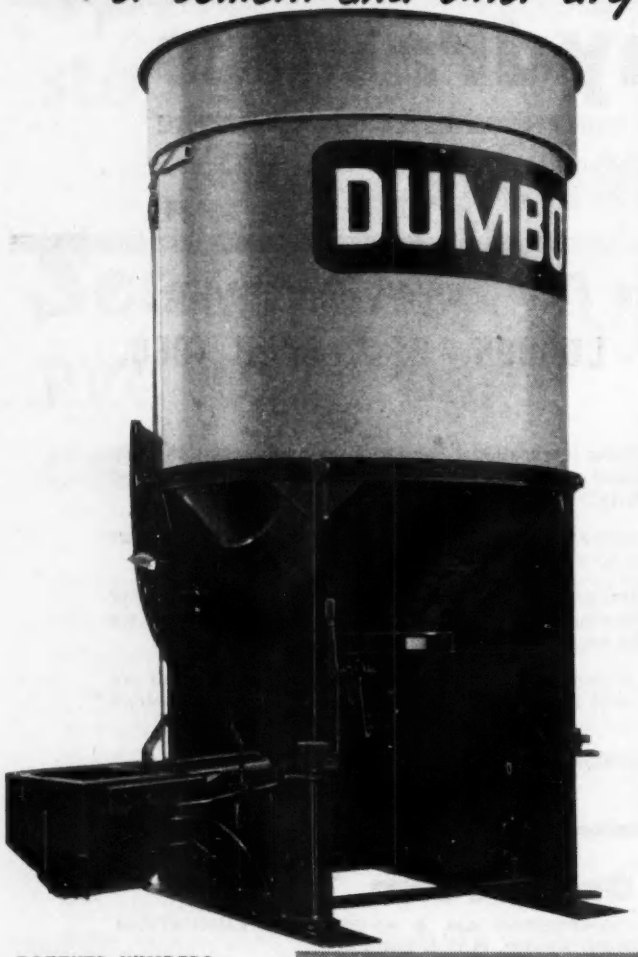

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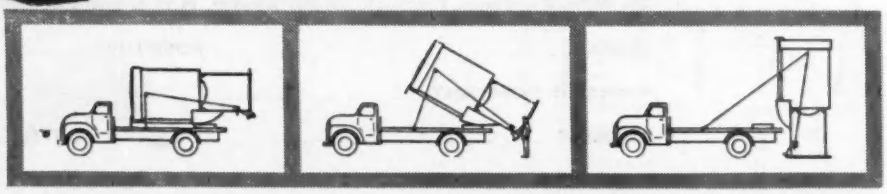

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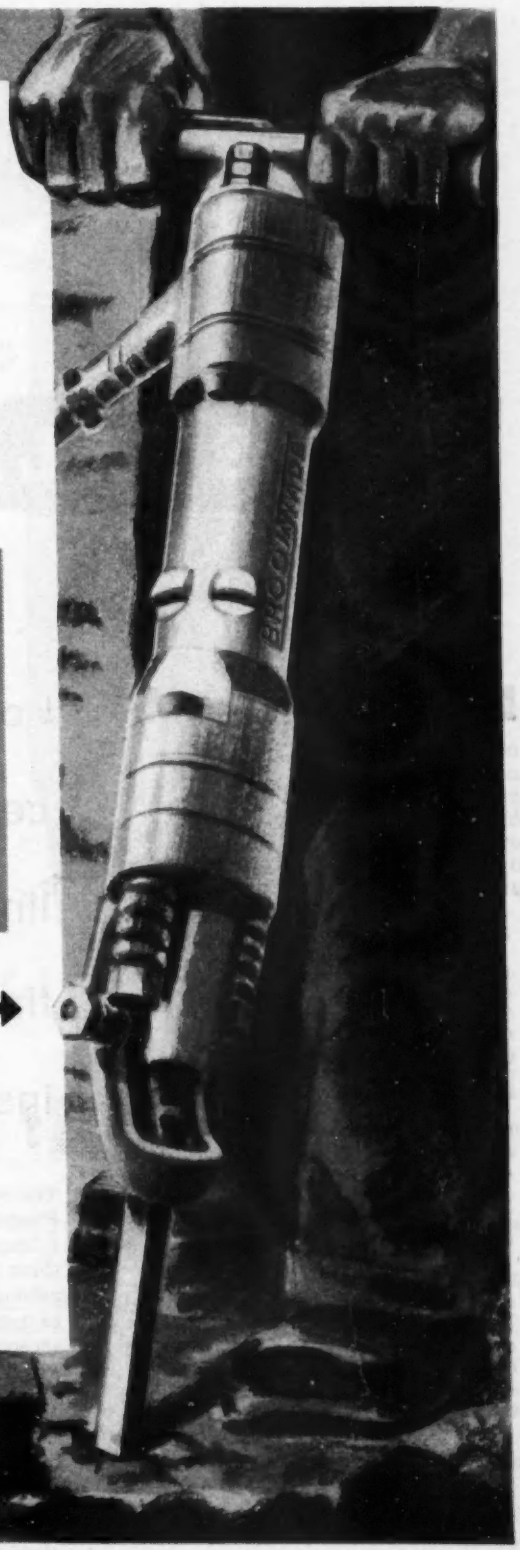

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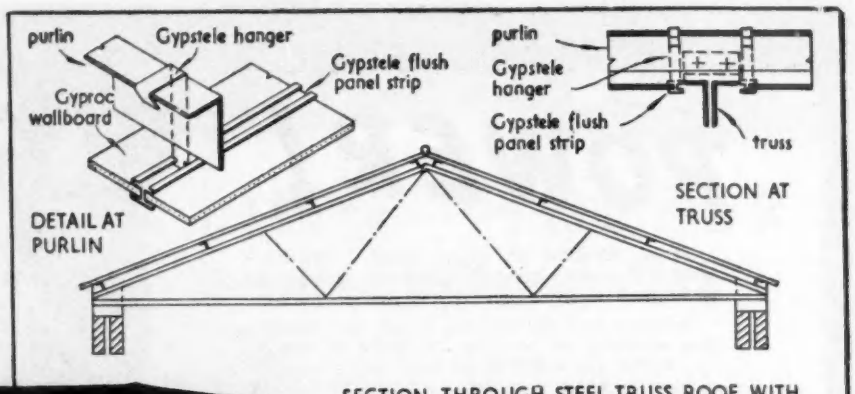

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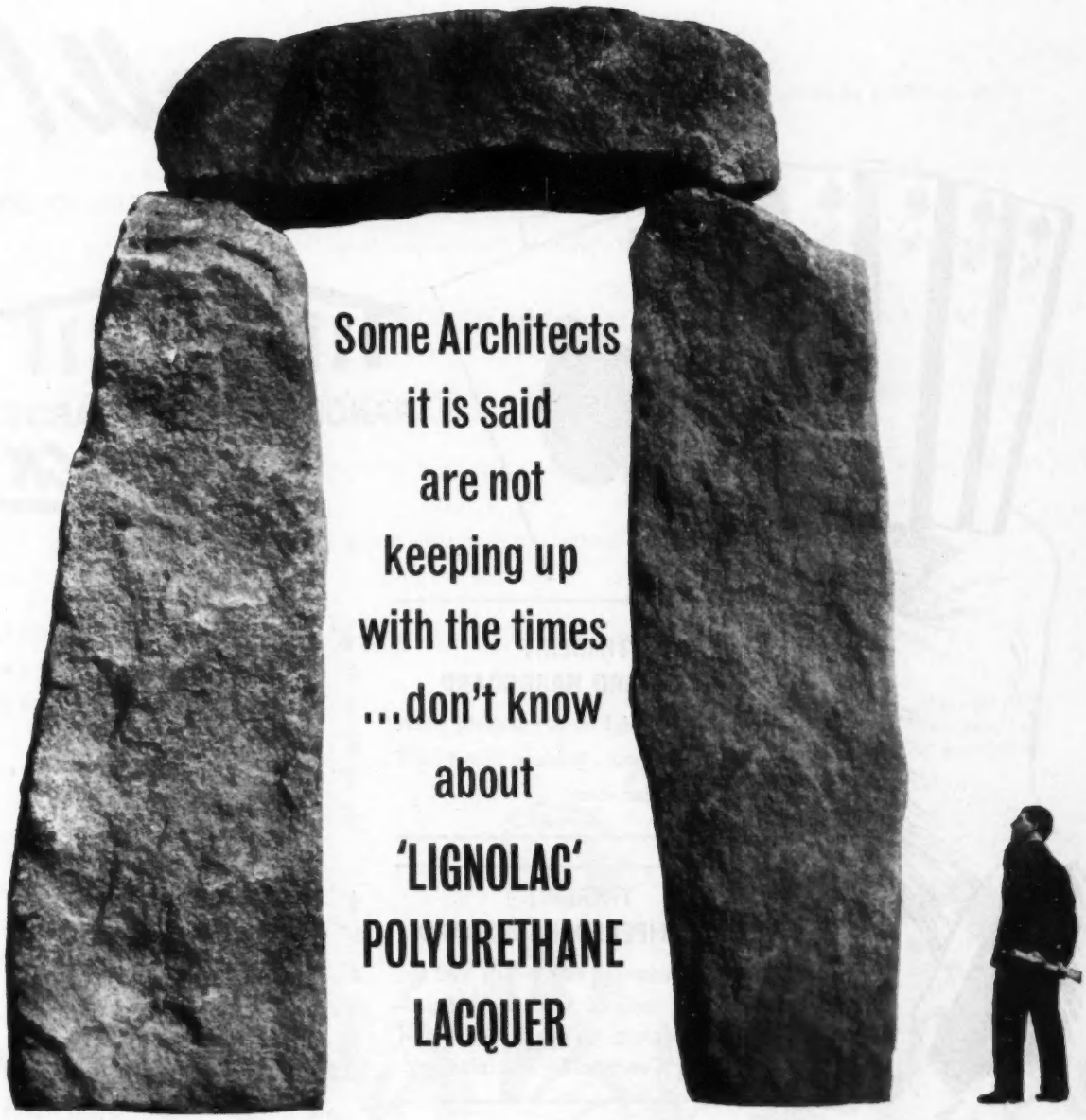

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1/4"	9 ft. × 4 ft.
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3/8"	9 ft. × 4 ft.
1/2"	9 ft. × 4 ft.

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'Anemone' sink and double drainer made from 'Perspex' acrylic sheet by English Rose Kitchens Ltd., Warwick

ENGLISH Rose Kitchens Limited know that today's housewives want light, bright, colourful kitchen fittings. That is why they have made their 'Anemone' sink and double drainer from 'Perspex' acrylic sheet. Fittings made from 'Perspex' are ideal for kitchens old and new. They are gay modern fittings, and 'Perspex' offers a wide range of up-to-the-minute colours — colours that go all through and are not just on the surface.

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Solution: **COLT** Ventilation

Place: ARTHUR GUINNESS SON & CO
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Exhaust gases from fork lift trucks and lorries were once a major problem in this storage shed. Colt experts were called in to make a scientific analysis and on their recommendation a series of Colt S.R.C./3080 High Duty Extract Ventilators was installed. Fumes no longer bother anyone.

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Being precise about drains

With pitch fibre pipes you can be precise. You know that you are specifying pipes made to BS 2760 which radically cut laying costs because of their precision machined dry-driven tapered joints. You can be precise, too, in planning site schedules because pitch fibre pipes can be laid in all weather conditions. Pitch fibre is the drainage system which is as up-to-date as your thinking.

SEVEN reasons why pitch fibre cuts your costs

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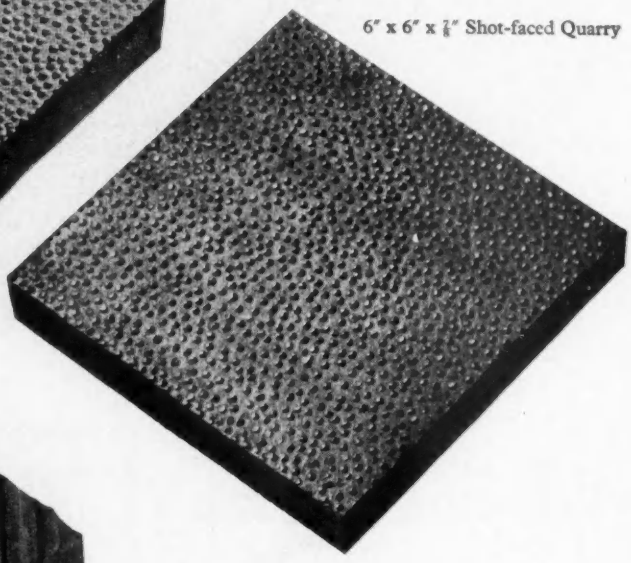
TGA PA2

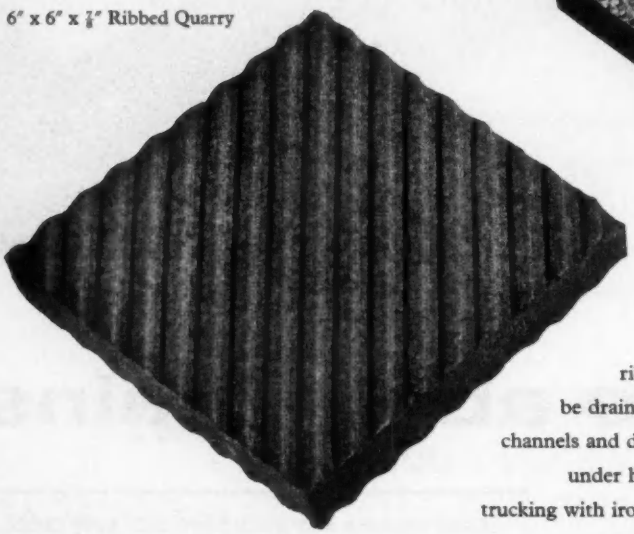
WHEATLY triton QUARRIES

for high performance floors under all conditions—

9″ x 4½″ x 1¼″ Shot-faced Quarry



6″ x 6″ x ⅞″ Shot-faced Quarry



6″ x 6″ x ⅞″ Ribbed Quarry

Illustrated are three non-slip Quarries which have a wide range of applications, particularly in industry. The ribbed pattern is ideally suited for floors where water has to be drained away since the grooves provide ready-made conduits to channels and drains. The shot-faced quarries will give high performance under heavy traffic conditions but are not intended to stand up to trucking with iron-shod wheels. All patterns are normally stocked in either Red or Russet Brown colour.

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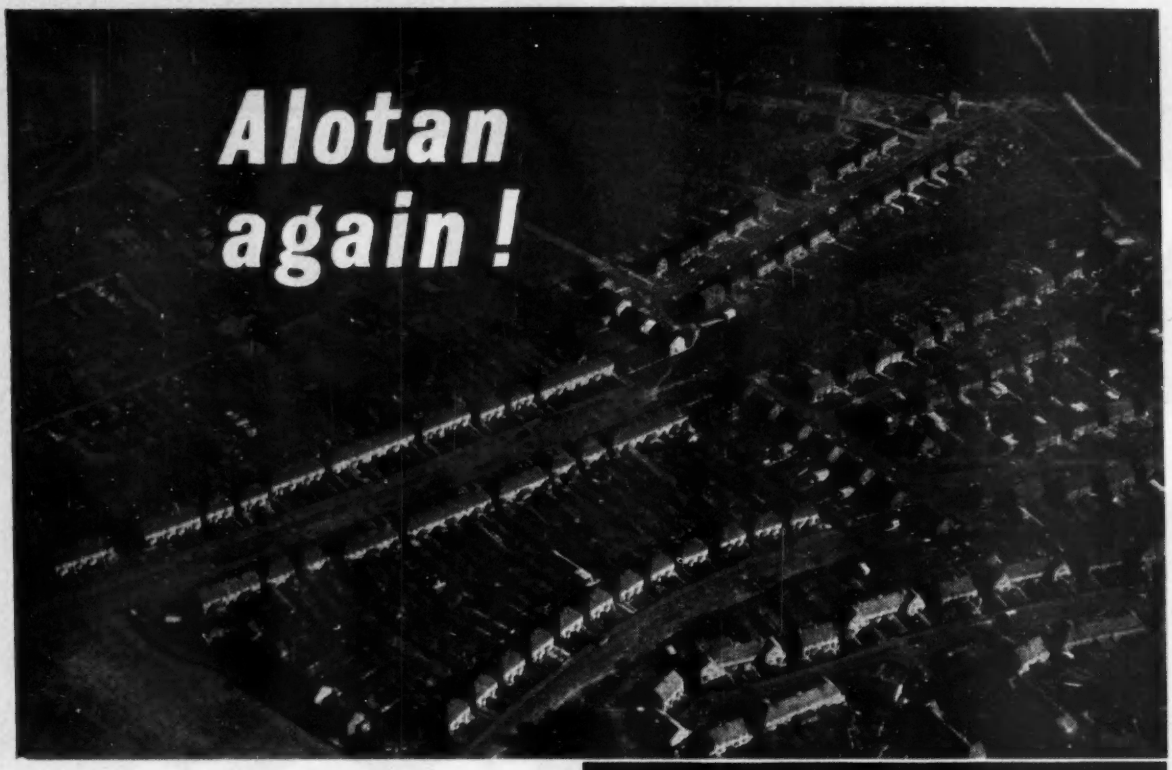

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in every way with

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MORTAR ADMIX

Alotan is being used exclusively on this modern residential estate at Fen Road in Cambridge. The Builders, Messrs. William Sindall Ltd., of Cambridge, agree that Alotan does indeed

ease mixing · speed work · save money

And in addition protects mortar against the most severe weather conditions and gives a sounder, neater job.

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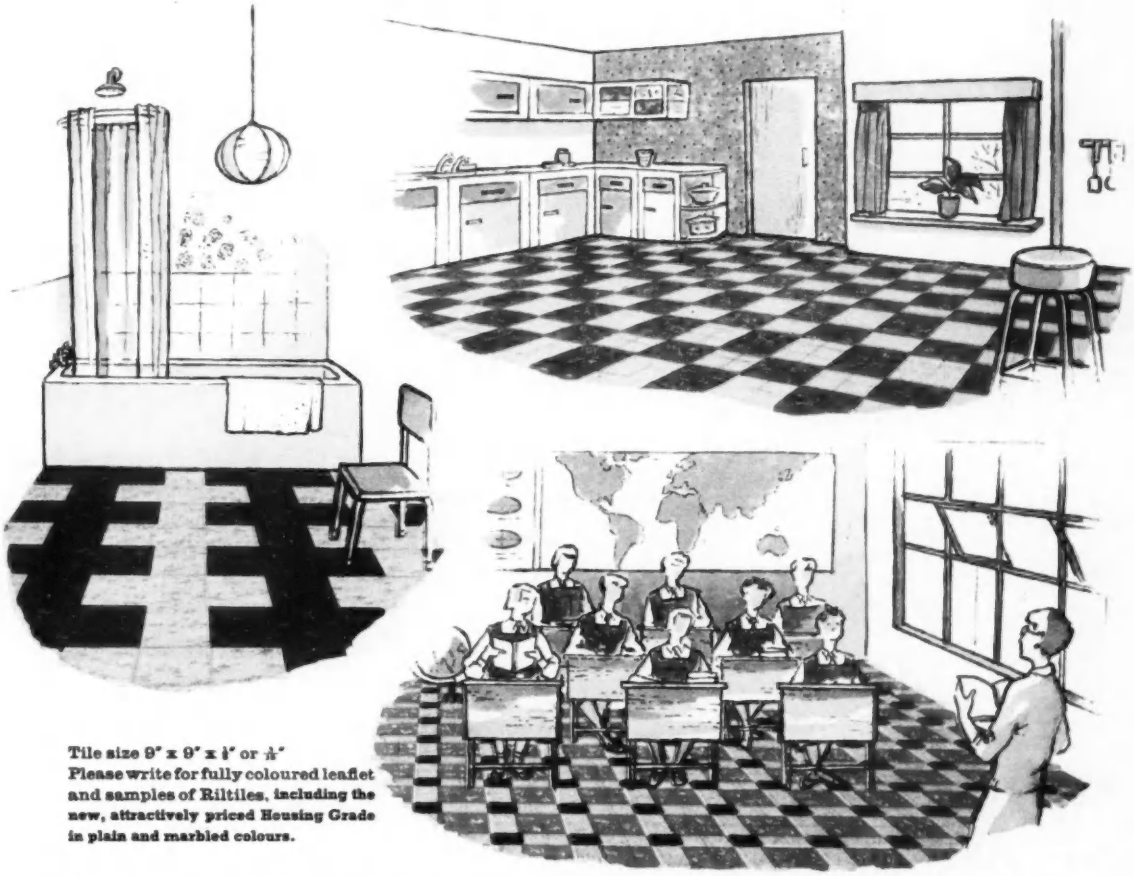
Modern decor starts at floor level



Tile size 9" x 9" x $\frac{1}{8}$" or $\frac{1}{16}$"
Please write for fully coloured leaflet and samples of Riltiles, including the new, attractively priced Housing Grade in plain and marbled colours.

Riltile Thermoplastic Floor Tiles, now in new augmented colour range, are a *lasting* basis for modern decor. Riltile's exceptionally hardwearing properties fully comply with the rigid specification of BSS 2592.

Resistant to oils, grease and dilute acids, and patterned right through. Riltile is a sound investment for both industrial and domestic flooring.

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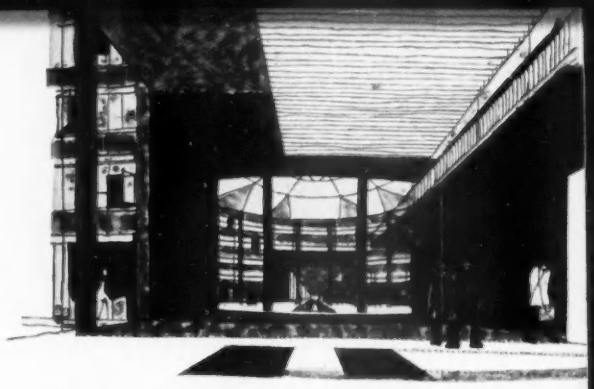
Motopia

A Glass Age Development Committee Study



4—THE COMMERCIAL CENTRE

A shopping centre of approximately 400,000 square feet on two levels will be a feature of the Town Centre of Motopia, which altogether will allow for shopping and entertainment for 100,000 people, office accommodation for 3,000 and a few light and service industries. There will be covered roof-parking for 3,000 cars in two levels with open roof accommodation for 1500 cars.

ILLUSTRATIONS SHOW

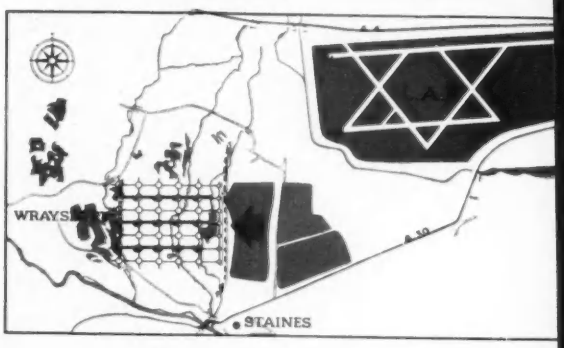
1 One of the circular halls in the 'Great Stoa'—the two-level shopping arcade, which is linked with the car parks by vertical paternoster lifts.

2 Looking along the shopping arcade, showing the moving pavements for pedestrians.

3 Site plan of Motopia.

4 The access to Motopia from the main road, showing the site of the shopping centre and car parks.

5 The large illustration shows the view from one of the shops.



Motopia is the fourth post-war study prepared by the Glass Age Development Committee, consisting of Jellicoe, Ballantyne and Coleridge, F/A.R.I.B.A., Edward D. Mills, F.R.I.B.A., and Ove Arup and Partners, and convened by Pilkington Brothers Limited.

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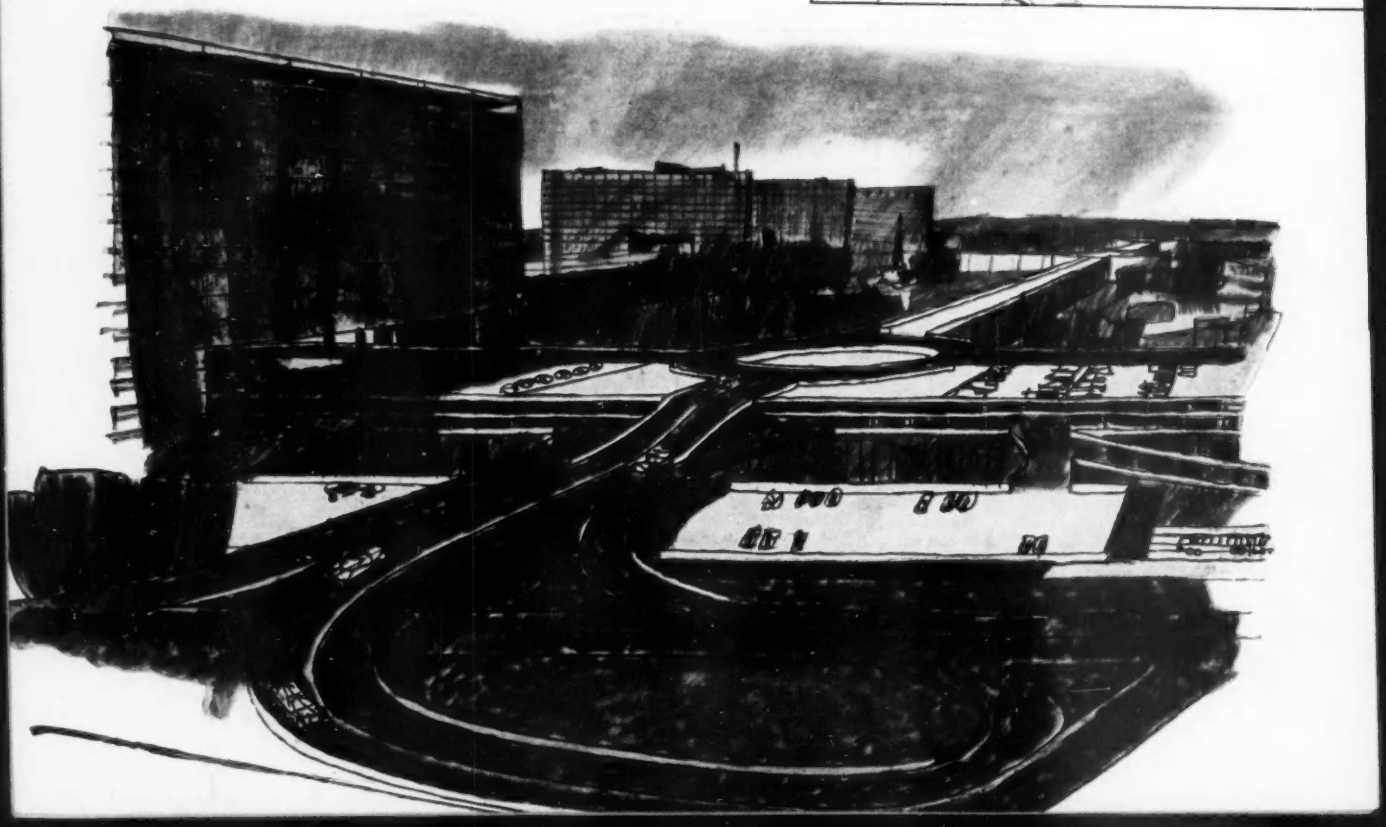

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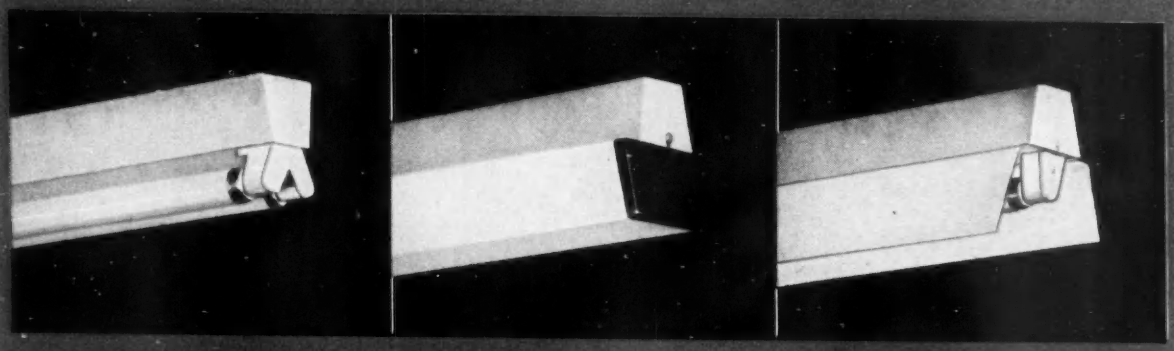

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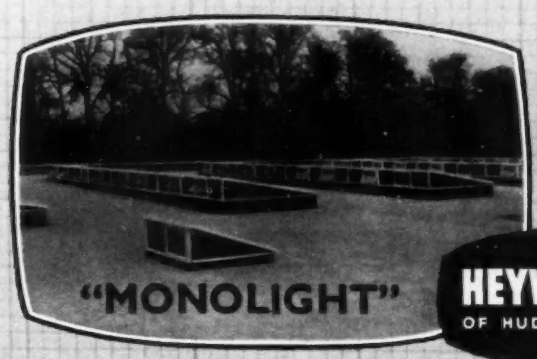

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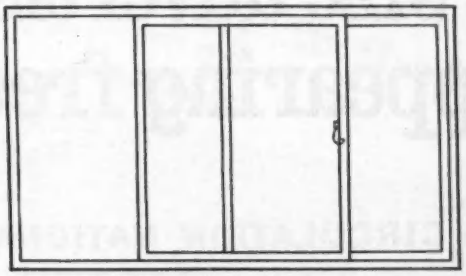
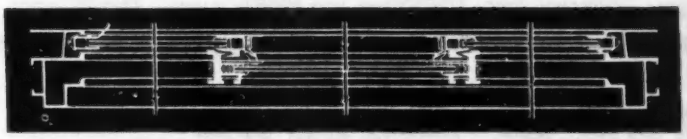
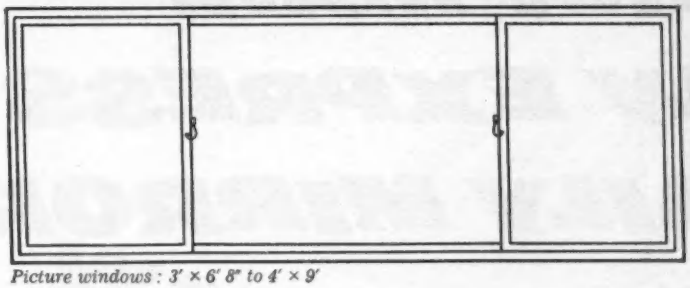
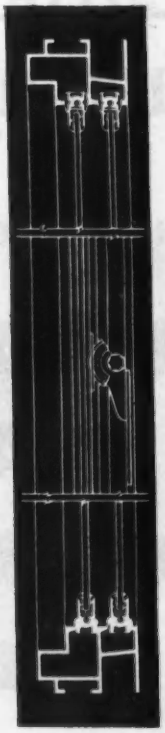


Horizontal sliding : 3′ × 3′ to 4′ × 6′







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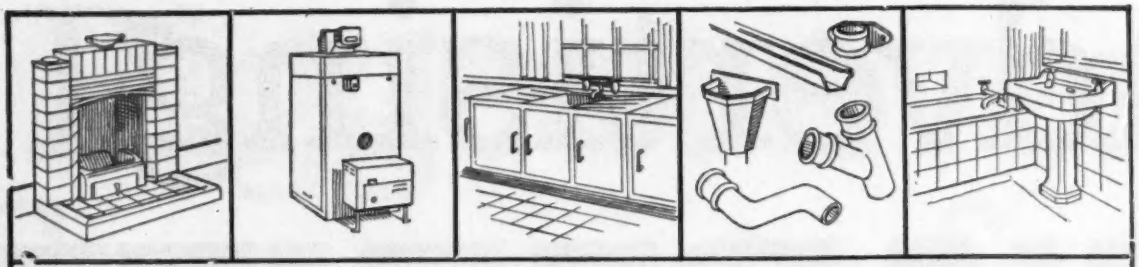

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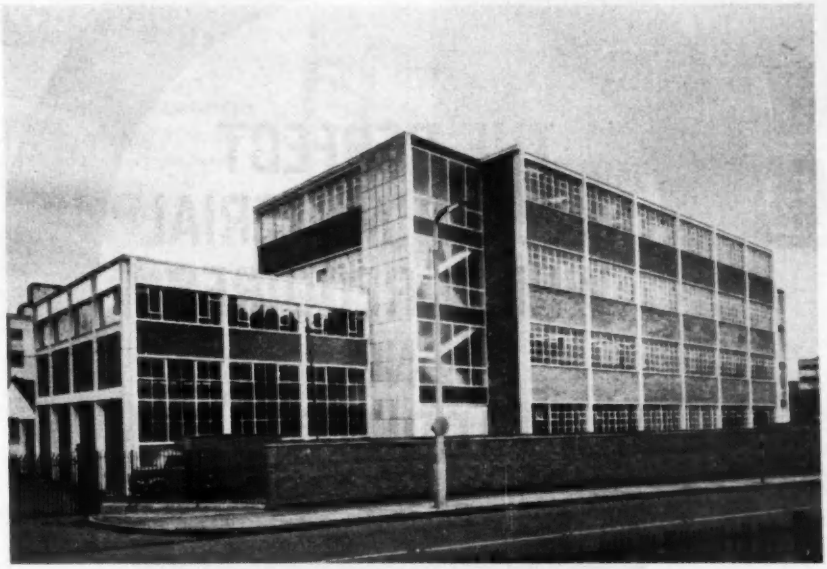

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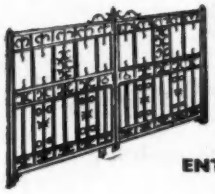

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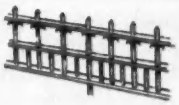

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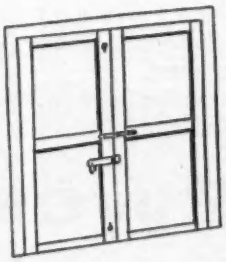

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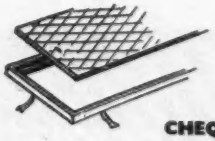

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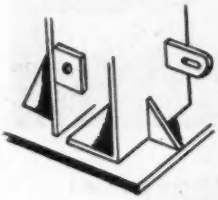

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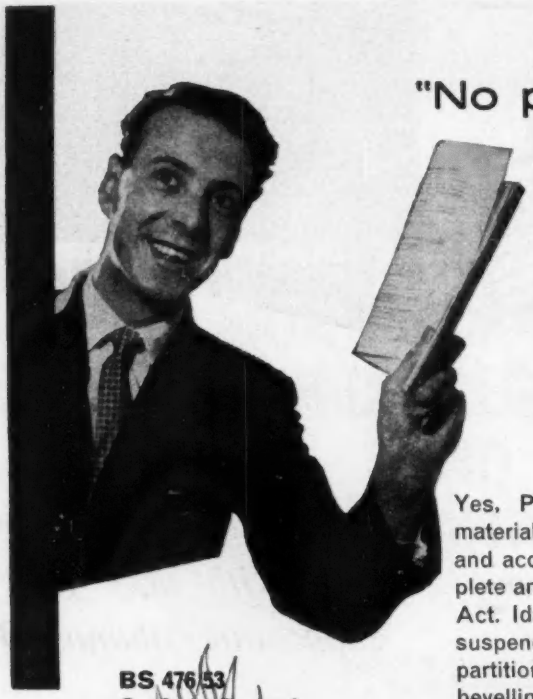

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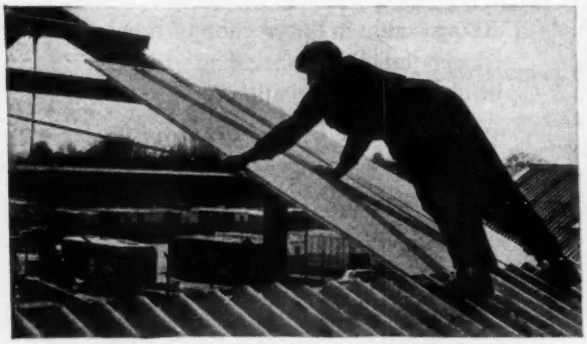

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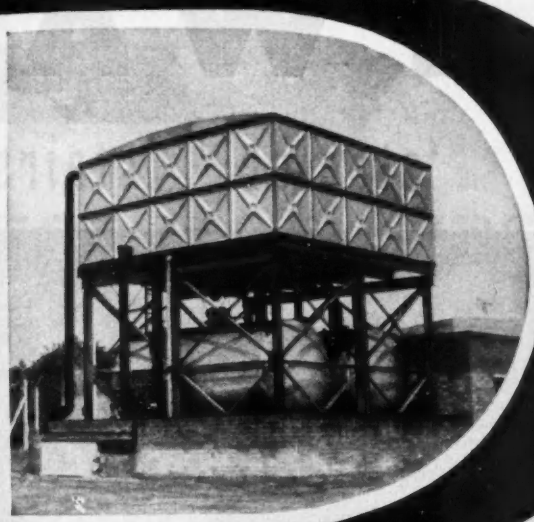

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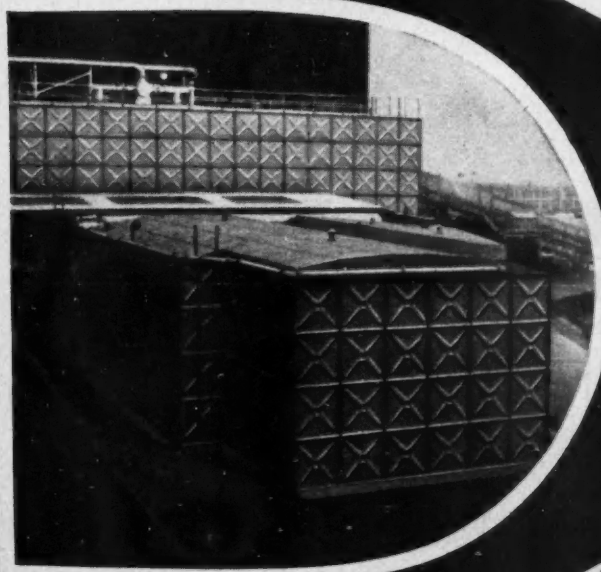

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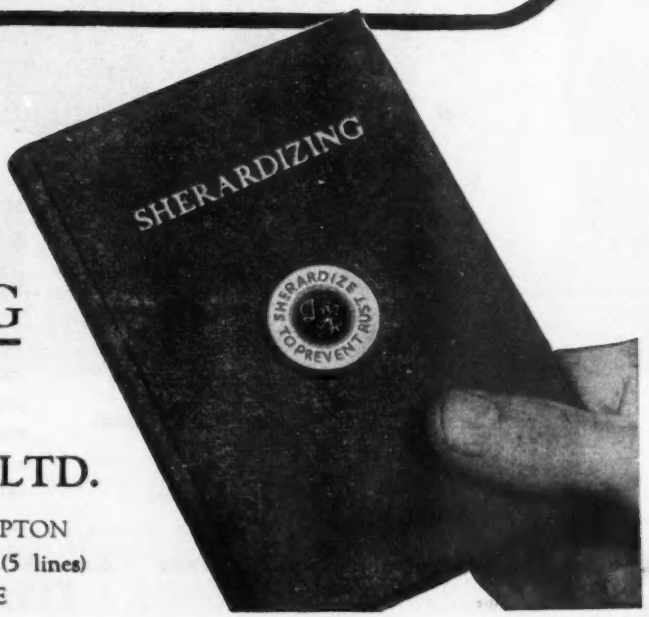

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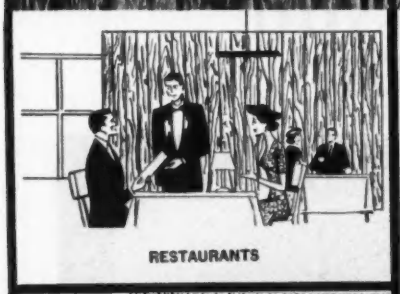

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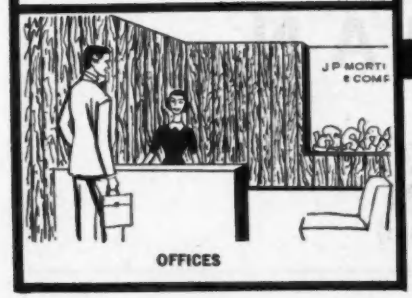

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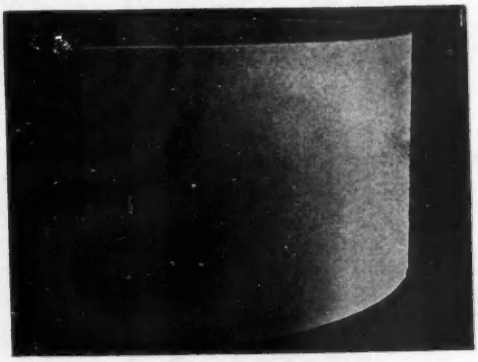

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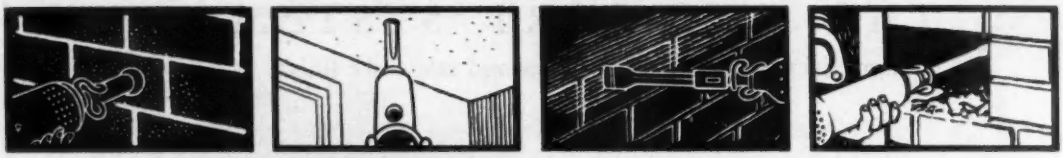

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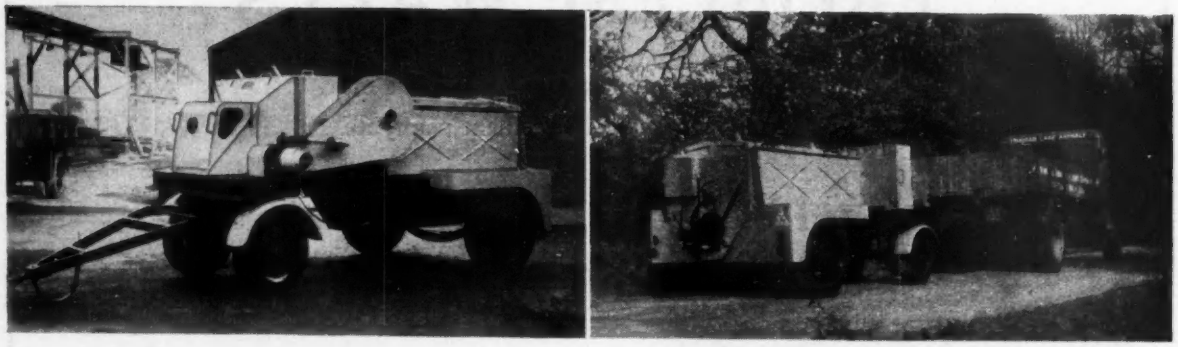

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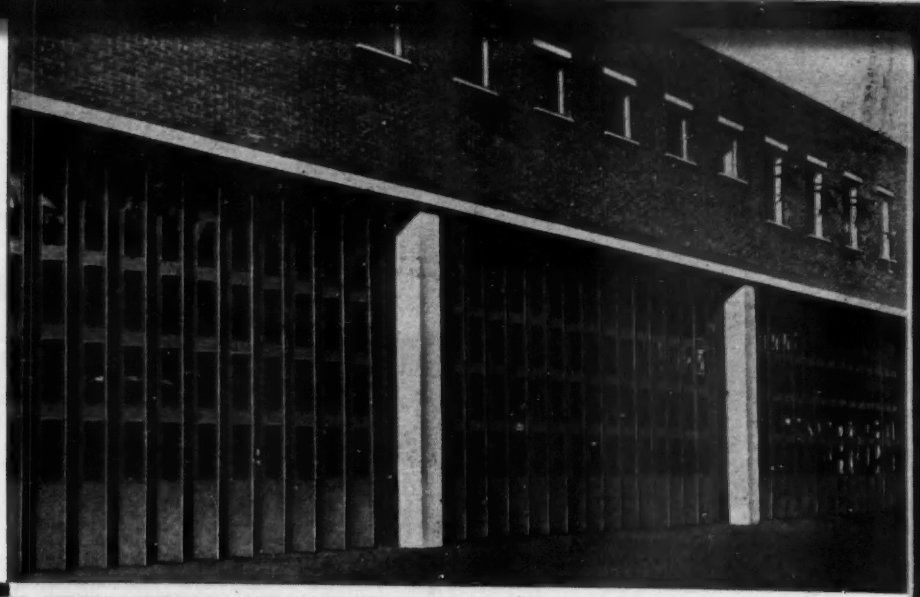

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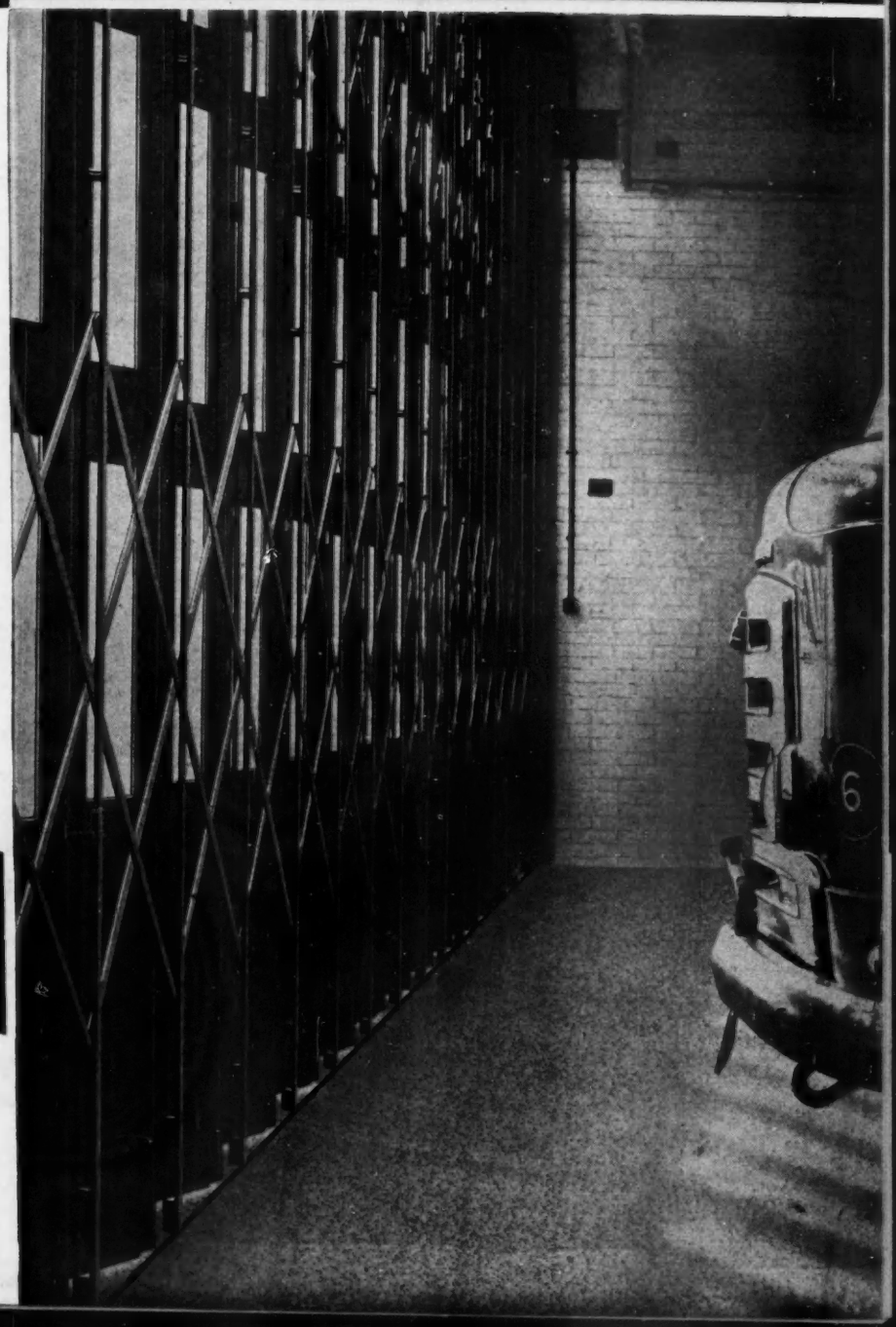

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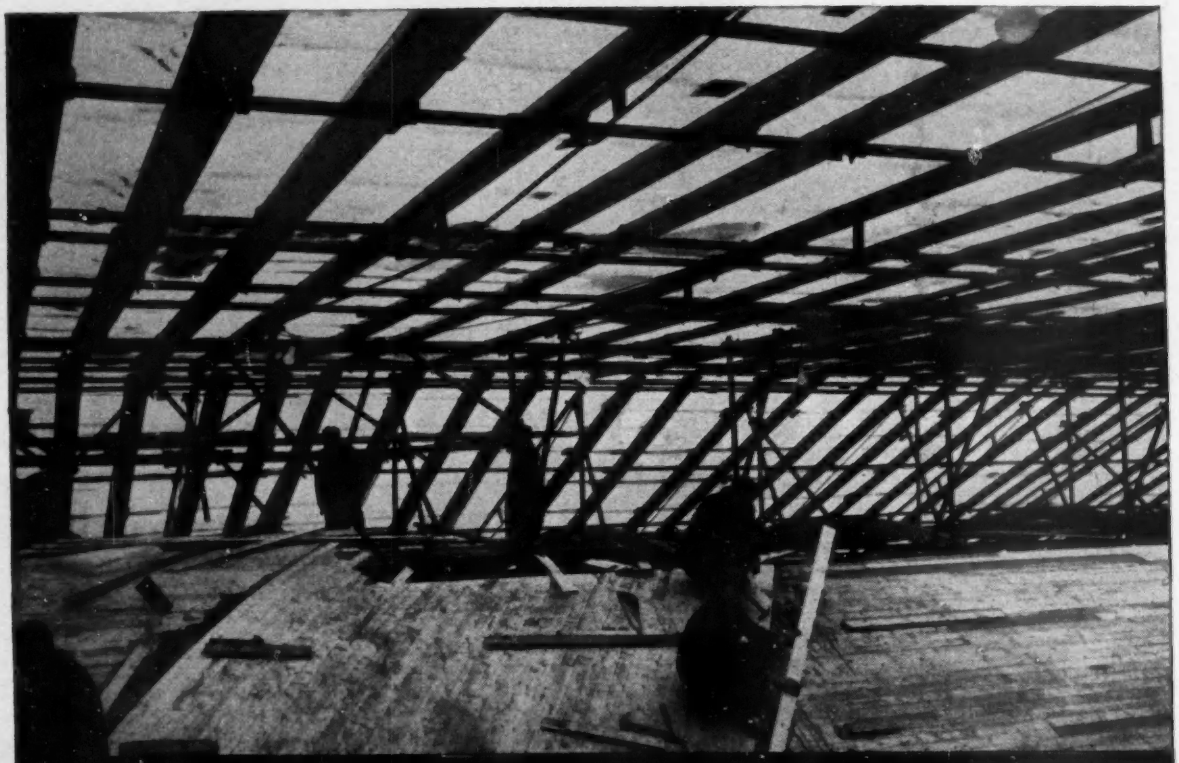

The roof of the new parcels depot at Coventry Station, protected by a 'Visqueen' canopy providing shelter for men and materials during construction. British Railways London Midland Region Chief Civil Engineer: J. Taylor Thompson, M.I.C.E.

Scaffold boards 3' 10½" apart were lashed diagonally to purlins at 5' centres. 'Visqueen' was unreeled over the boards and battened down with 1½" x ¾" slate laths.

Polythene "umbrella" for roof construction at Coventry

A thoroughly waterproof cover was essential during the construction of this barrel-vault timber roof over the new parcels depot at Coventry Station. MILLS SCAFFOLD COMPANY LIMITED collaborated with WILLIAM KAY (BOLTON) LIMITED, roofing specialists, to erect a temporary structure over the whole job. They clad the top with 'Visqueen' 1000 (double-heavyweight) and the sides with 500 (heavyweight) to keep the timberwork dry and enable work to continue in daylight regardless of the weather.

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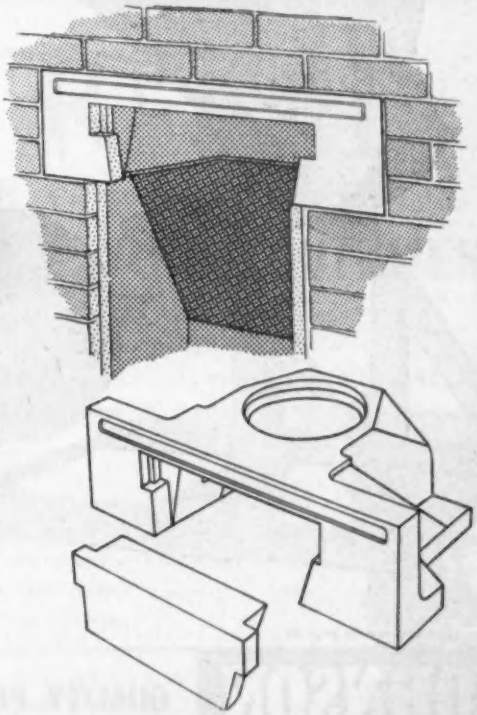

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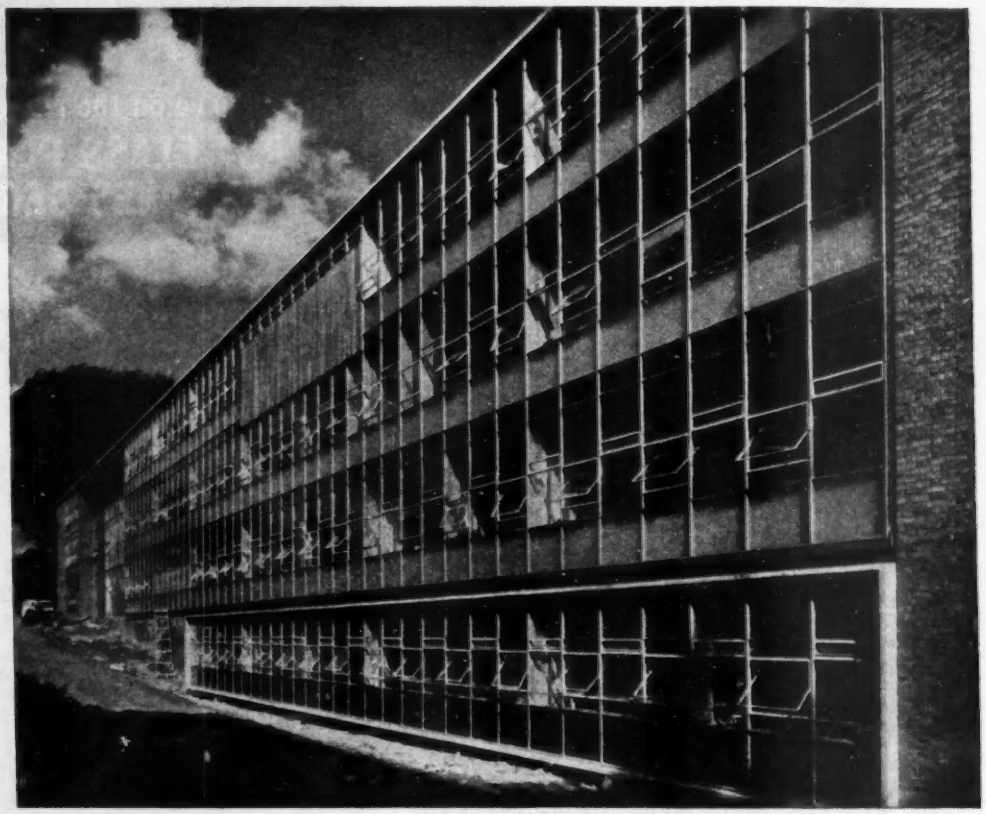

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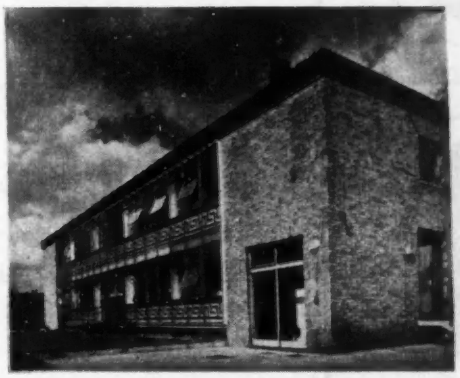

An interesting feature about this building for Thomas Morson & Son is the decorative fascia behind the "Windogrid" curtain walling made by HENRY HOPE & SONS LTD.
Architect: Kenneth Boyd, A.R.I.B.A.

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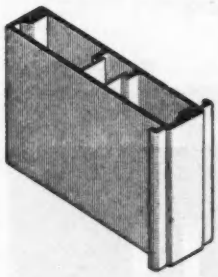
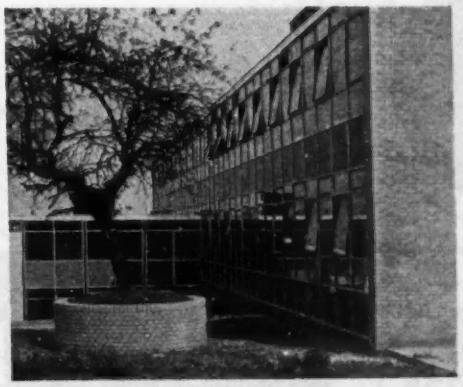


A typical example of aluminium extrusion for use in curtain walling.



*Fairlawn Primary School, Lewisham—*HOPE'S *aluminium "Windogrid" curtain walling was specified for this building.*
Architect: Peter Moro, F.R.I.B.A., F.S.I.A.

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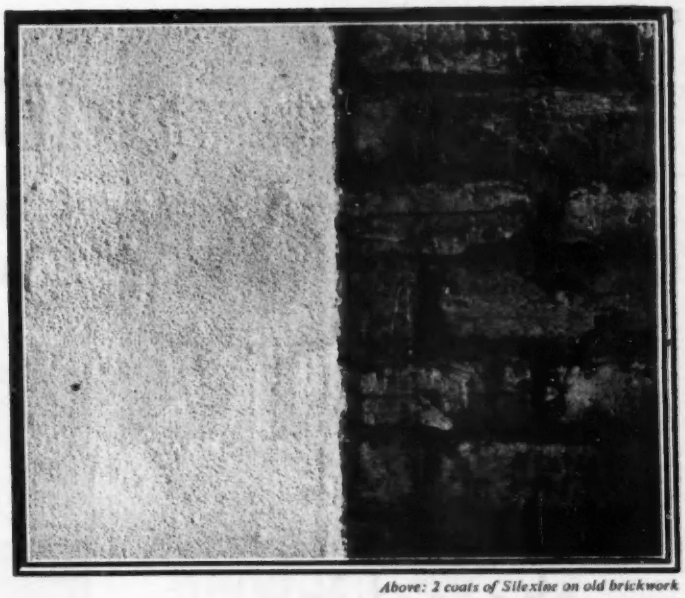

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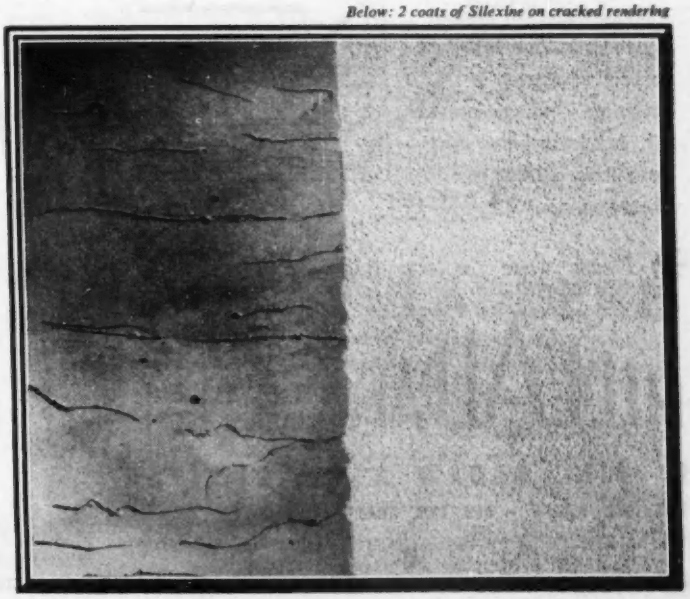

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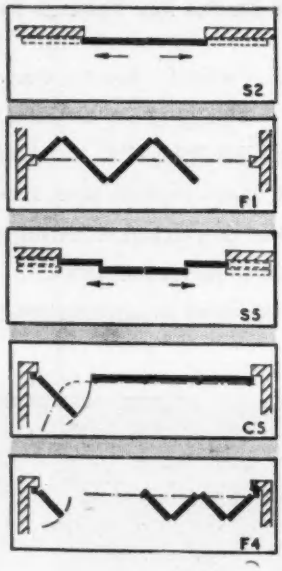

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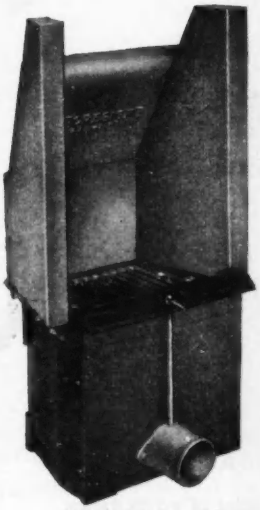

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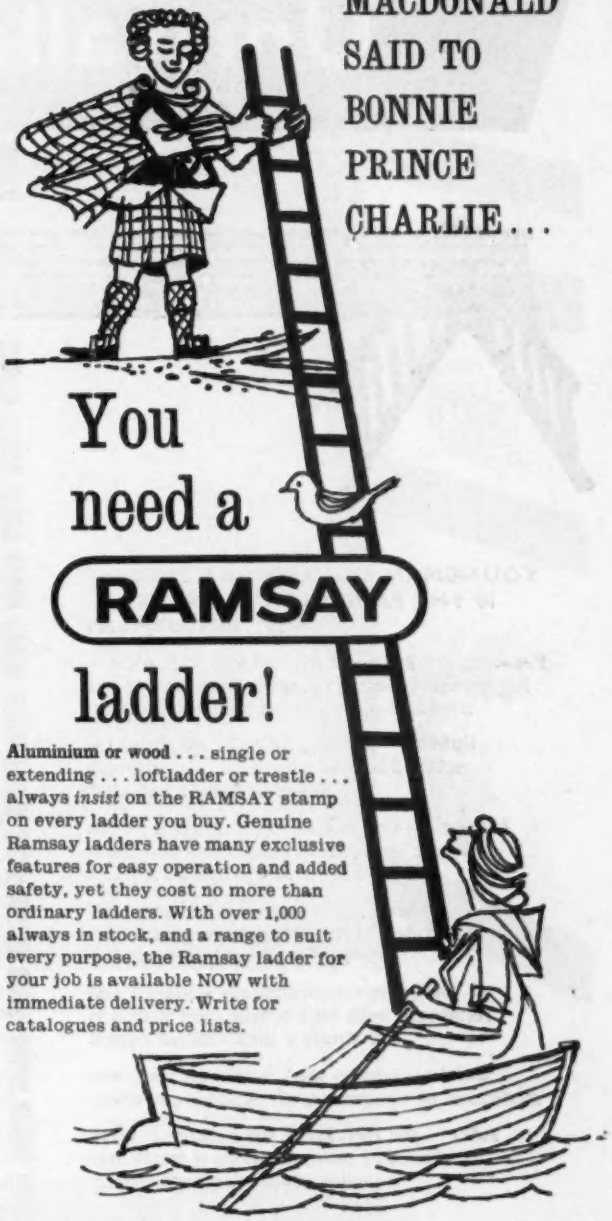

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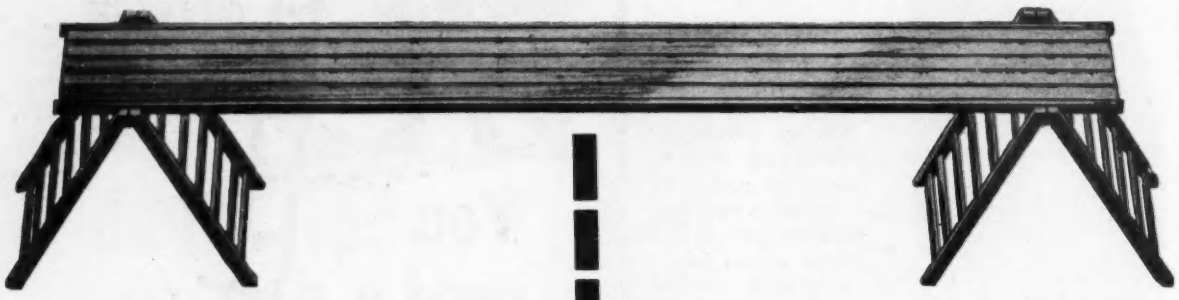

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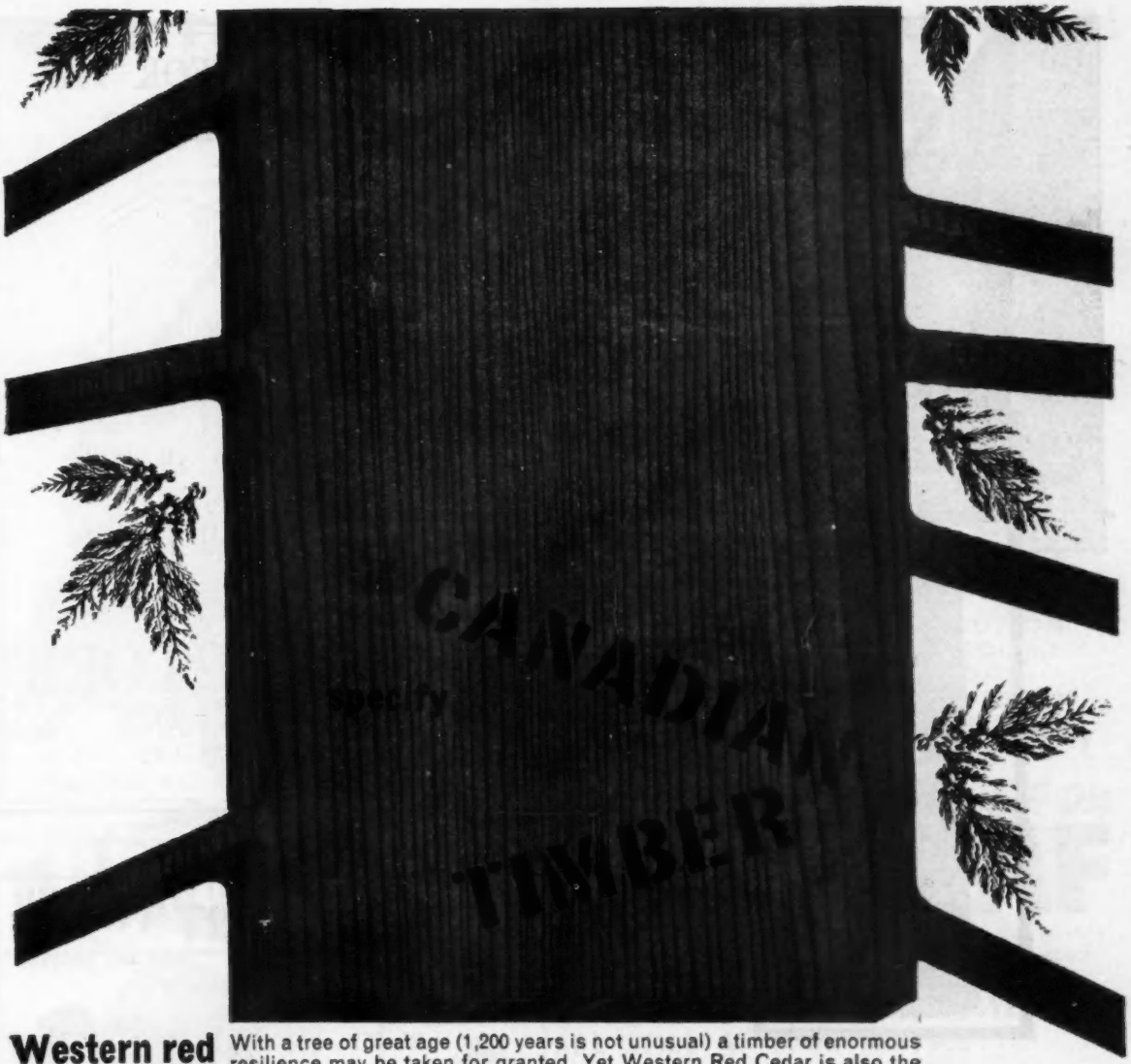

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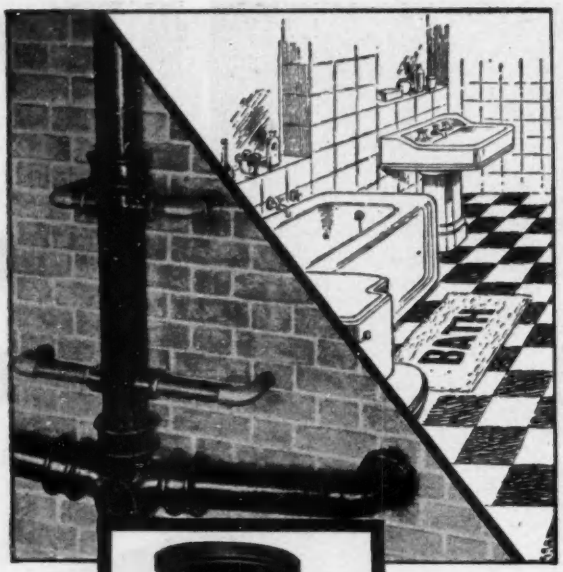

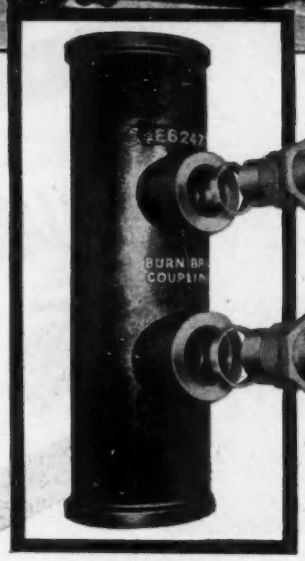

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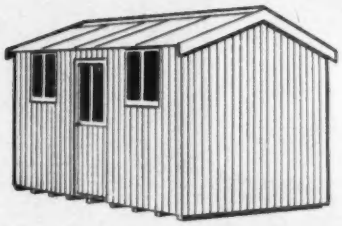

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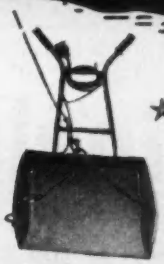

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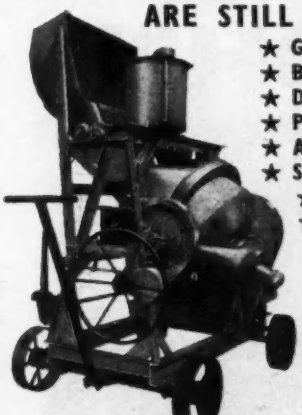

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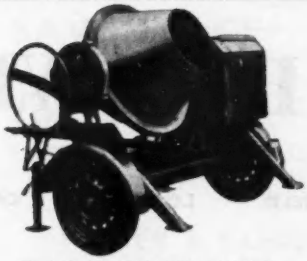

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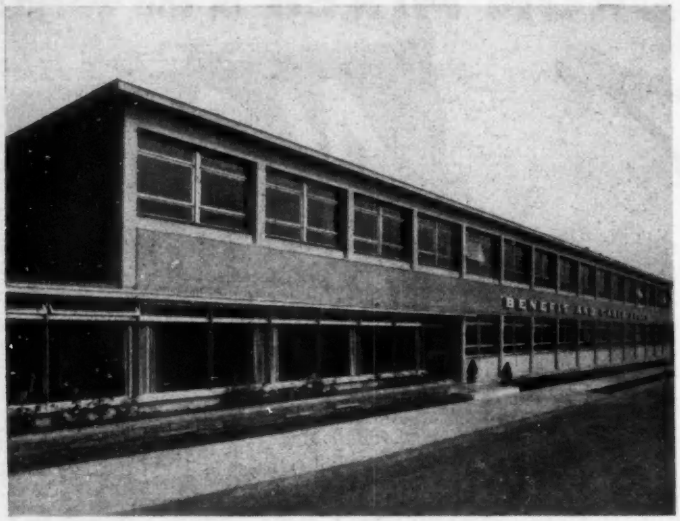

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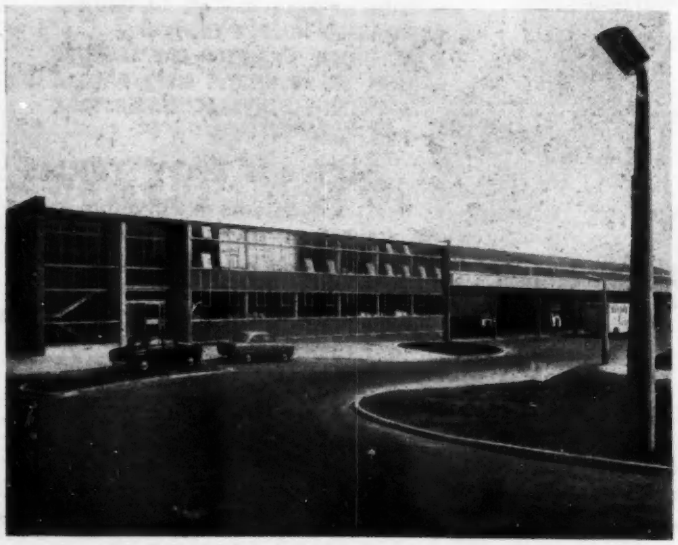

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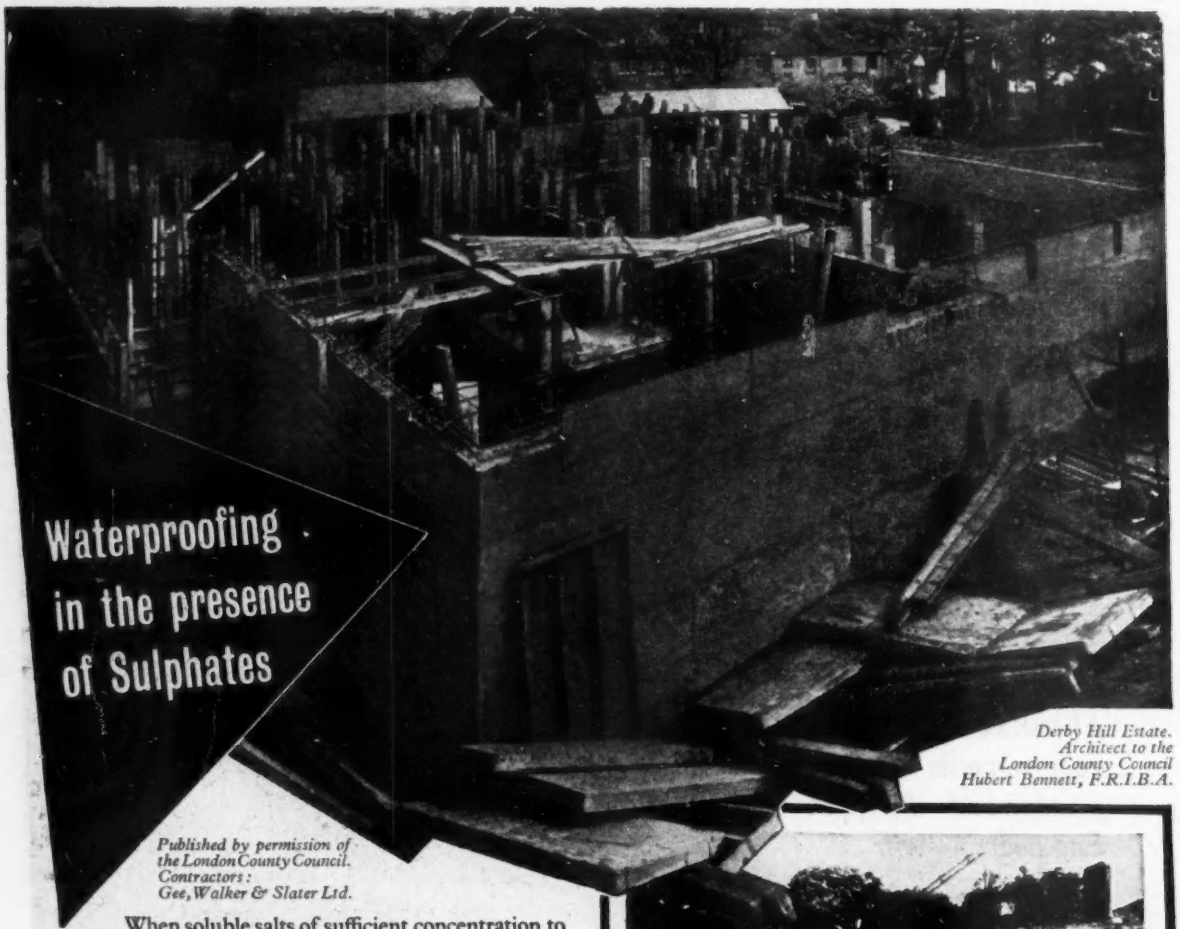

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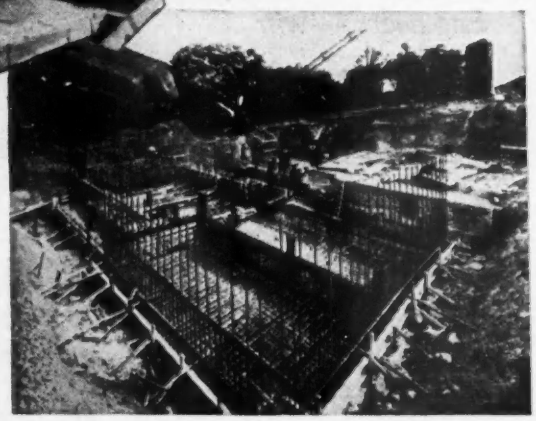

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Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVIII. March 11th 1960 No. 6095

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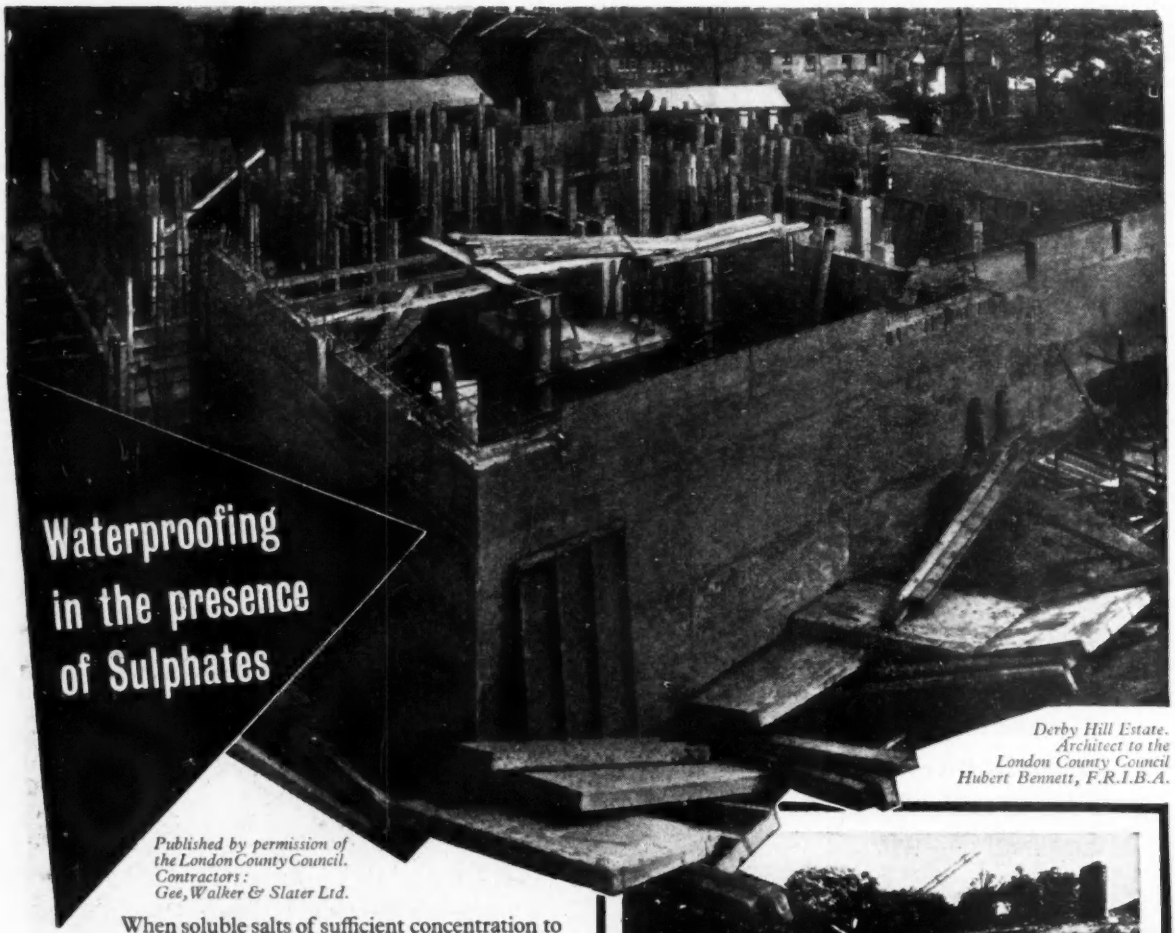

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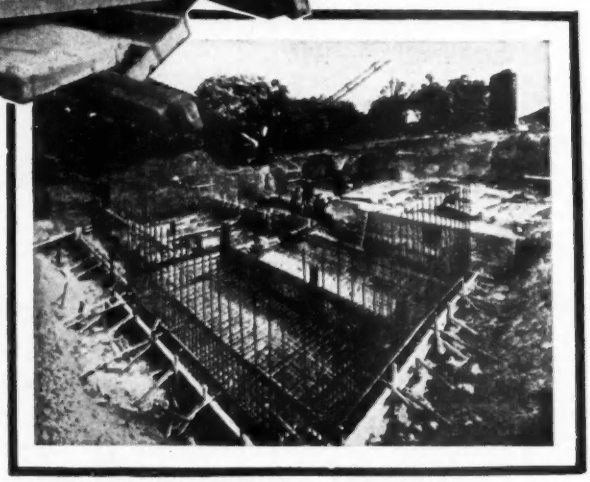

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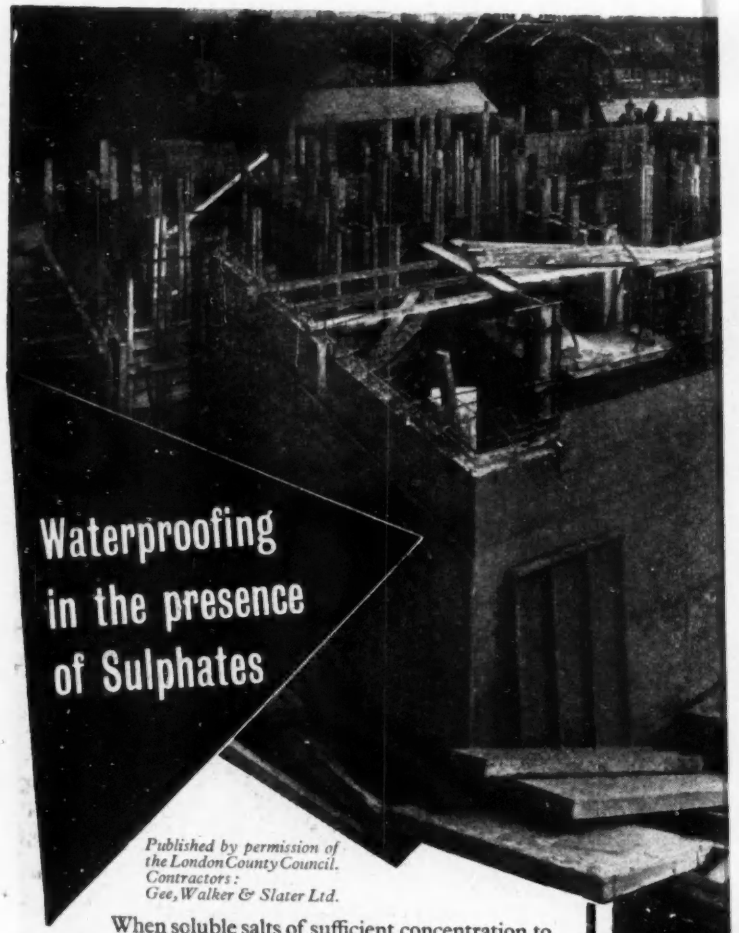

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Late News

RIBA News

MATTERS REPORTED to the RIBA Council on Tuesday included the following:

EXHIBITION OF BARRY'S WORKS: The Library Committee hope to arrange an exhibition of drawings by Sir Charles Barry in this, the centenary year of his death. Lord Mottistone has kindly presented the Library with an interesting volume of Barry's drawings formerly in the possession of Octavius Barrett, brother of Elizabeth Barrett Browning.

THE ASHPITEL PRIZE: The award for 1959 goes to Mr. Neil Bentham (Stud. RIBA), of the Manchester Regional College of Art.

SIR BANISTER FLETCHER PRIZE: The award for 1959 is made to Mr. M. L. Manwell, of the Belfast College of Art.

EXAMINATION FEES: The Finance and House Committee have affirmed their previous recommendation that exemption fees for the Intermediate and Final examinations, and the entrance fee for Probationers should not be altered. This was endorsed by the Council.

ARCHITECTS' REMUNERATION: Council approved, among others, proposals that the Policy committee be asked to look at the overall implications for the Institute of the report of the Royal Commission on Doctors' and Dentists' Remuneration; and that the Secretariat should go ahead with preparations for a comprehensive survey of architects' offices to meet various needs outlined.

ADDITIONAL STAFF: Posts shortly to be advertised as open are: Deputy Librarian (scale: £1,100-£1,800); Deputy to the Secretary, the Board of Architectural Education; a Technical Editor to get the first of a series of RIBA notes under way (scale: £1,250-£2,000).

US Architect Honoured

THE COUNCIL of the Town and Country Planning Association announce that the Howard memorial medal is to be awarded to Mr. Clarence Stein, the American town planner and architect who has been a leading advocate of the new town principle of development in the United States.

Tall Building Project, Sydney

THE LORD MAYOR of Sydney, Ald. Jensen, arrived in London on Wednesday afternoon to find a buyer for a valuable plot of land owned by the city council in Martin-place, the business centre of Sydney. He said he hoped a building costing £A6m. would be built on the site. Ald. Jensen, who will be in London for about a week, can be reached c/o Agent General for New South Wales, 56 Strand, London, WC2.

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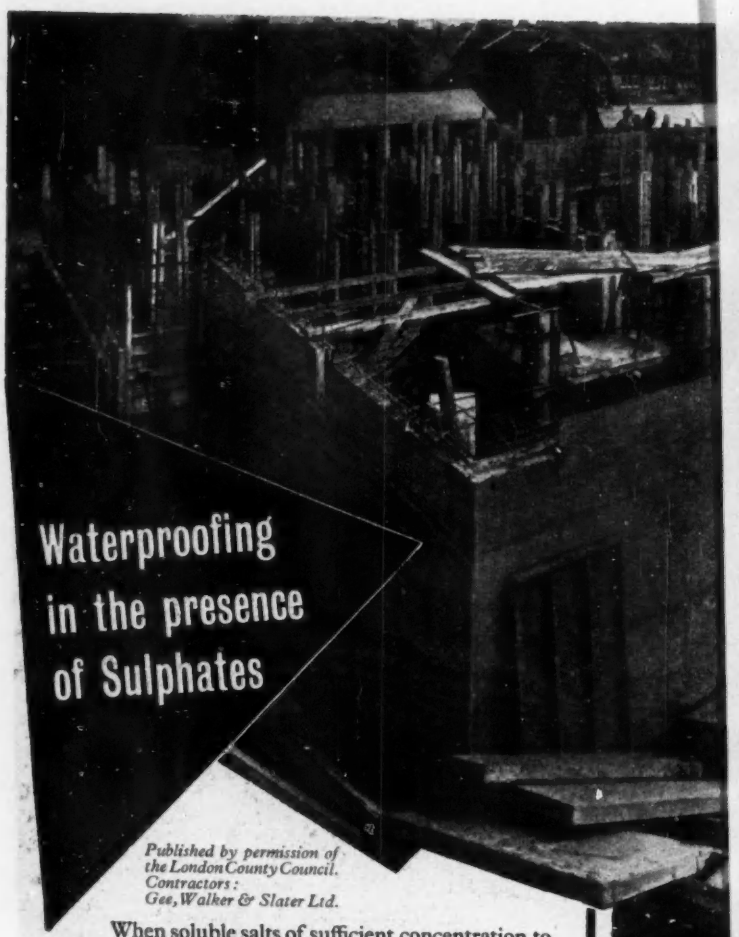

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When soluble salts of sufficient concentration to cause disintegration of ordinary concrete are present in a damp site, there is the dual problem of preventing sulphate attack and of protecting the concrete in contact with the ground from penetration of dampness.

These conditions have been met and overcome on numerous sites by the use of 'PUDLO' Brand Waterproofer in combination with sulphate resisting Portland cement.

A typical instance is in the construction of blocks of flats for the London County Council at Derby Hill, Sydenham, London, S.E., where the reinforced concrete forming the cellular raft foundation and basement walls is composed: 1 part sulphate resisting Portland cement, 2 parts coarse washed sand, 4 parts non-porous aggregate ¾" down, with the inclusion of 3 lbs. 'PUDLO' Brand Waterproofer per 100 lbs. of cement.

Illustrations are of work in progress to 2 blocks.

OTHER 'PU
WATERPROOF C
CEMENT PAINT
EXTERNAL WAT
CEMENT BONDE
PLASTER BONDE
MORTAR PLAST

'PUDLO' CEMENT WATERPROO

The word 'Pudlo' is the registered Trade Brand of Kerner-Greenwood & Co. Ltd., by whom all articles bearing that Bra

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Late News

RIBA News

MATTERS REPORTED to the RIBA Council on Tuesday included the following:

EXHIBITION OF BARRY'S WORKS: The Library Committee hope to arrange an exhibition of drawings by Sir Charles Barry in this, the centenary year of his death. Lord Mottistone has kindly presented the Library with an interesting volume of Barry's drawings formerly in the possession of Octavius Barrett, brother of Elizabeth Barrett Browning.

THE ASHPITEL PRIZE: The award for 1959 goes to Mr. Neil Bentham (Stud. RIBA), of the Manchester Regional College of Art.

SIR BANISTER FLETCHER PRIZE: The award for 1959 is made to Mr. M. L. Manwell, of the Belfast College of Art.

EXAMINATION FEES: The Finance and House Committee have affirmed their previous recommendation that exemption fees for the Intermediate and Final examinations, and the entrance fee for Probationers should not be altered. This was endorsed by the Council.

ARCHITECTS' REMUNERATION: Council approved, among others, proposals that the Policy committee be asked to look at the overall implications for the Institute of the report of the Royal Commission on Doctors' and Dentists' Remuneration; and that the Secretariat should go ahead with preparations for a comprehensive survey of architects' offices to meet various needs outlined.

ADDITIONAL STAFF: Posts shortly to be advertised as open are: Deputy Librarian (scale: £1,100-£1,800); Deputy to the Secretary, the Board of Architectural Education; a Technical Editor to get the first of a series of RIBA notes under way (scale: £1,250-£2,000).

US Architect Honoured

THE COUNCIL of the Town and Country Planning Association announce that the Howard memorial medal is to be awarded to Mr. Clarence Stein, the American town planner and architect who has been a leading advocate of the new town principle of development in the United States.

Tall Building Project, Sydney

THE LORD MAYOR of Sydney, Ald. Jensen, arrived in London on Wednesday afternoon to find a buyer for a valuable plot of land owned by the city council in Martin-place, the business centre of Sydney. He said he hoped a building costing £A6m. would be built on the site. Ald. Jensen, who will be in London for about a week, can be reached c/o Agent General for New South Wales, 56 Strand, London, WC2.

The Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

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industry, and the relationship of architects with the makers of building products. The first Mr. Allen believes to be 'no real issue at all; we ought to dispose of it at once'; as to the second, the whole profession should, as individuals, set out to define to industry architectural requirements in respect of design and price, and bring producers into the general picture of architecture to sense a common purpose. We do not think many will be found to disagree with him on either count.

No part of Mr. Allen's address is of more value than his comment on the building professions: 'some single group must see to the smooth collaboration of the whole array of interests, professional and industrial, and the main duty is clearly the architect's.' Later Mr. Allen adds: 'A profession derives its authority for comment and action only from its specialised training and discussion; the converse is . . . . that a profession should not attempt to speak or act in fields for which its training has not prepared it.' Architectural educationists as well as the practitioners should ponder this stimulating address.

Notes of the Week

The RIBA Kalendar; Record Construction; Landscape Architecture; Colour Trends; Modern Stained Glass

THE TROUBLE ABOUT A GOOD IDEA is that it is so easy to do it to death. Thus the RIBA Council's plan to issue its literature in the A4 international paper size was good in so far as it relates to the 'Journal,' reports, brochures, etc. But to make the Kalendar (one of the most-used books of reference in any architect's office) to conform to this edict will not earn the Council many marks from those who believe that a reference book should be (a) handy in size and (b) bound in card covers. The new Kalendar, which is reaching various classes of membership by easy stages, fulfils neither of these desiderata. Just on 12 in. high it does not fit comfortably the normal bookcase, nor are its limp covers designed for wear and tear. And the fate of those books which can only lie down is to be buried.

These comments apart, the Kalendar is well laid out, though we should prefer to find the index inside the front cover rather than following prefatory advertisements. All membership is now given alphabetically, preceded by indication of grade and year of election. A numerical summary shows a total of 25,147 made up of hon. Members: 208; Fellows: 2,107; Associates: 14,583; Licentiates: 2,101; Students: 5,460; retired Members: 684; and subscribers: 4.

The Kalendar, it is understood, is to be re-issued annually, but only to those members who specifically ask for it. Attention to the question of having a stiffer cover is being given.

Record Construction

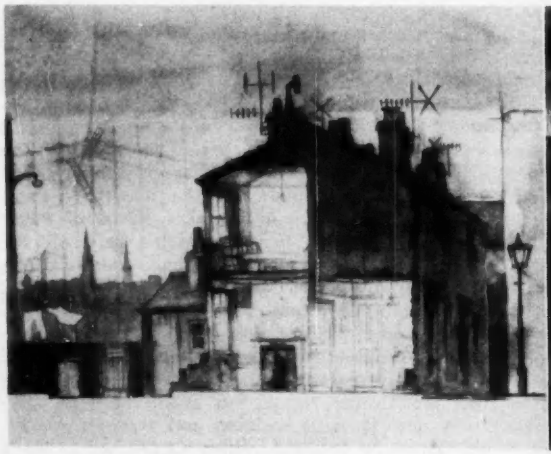
A RECORD in the value of constructional work carried out in the last quarter of last year is seen in current figures issued by the Ministry of Works. At £509m. it compares with £465m. in the October-December quarter of 1958, and gives a provisional total for 1959 of £1,976m. which compares with £1,820m. in 1958. Allowing for changes in the method of classification and in prices, it is estimated that the 1959 output was about 6 per cent higher than in 1958. This increase has only once been exceeded since the end of the war—in 1952-53 when 7 per cent was achieved.

It is good to note that employment in the building industry is high, 20,000 more being in work in January as compared with January, 1959. Prices of building materials remained relatively stable during the last quarter of 1959 and the cost of new construction was unchanged compared with the third quarter. These figures give cause for some satisfaction, as does the news that the index of the volume of production for the fourth quarter, seasonally corrected, shows no change in spite of the unusually good weather conditions of the previous quarter.

Landscape Architecture

AT A MEETING of the Institute of Landscape Architects on February 23, with its President, Mr. H. F. Clark, in the chair, collaboration between the architect and the landscape architect was discussed by Arthur Ling and Bodfan Gruffyd—not to mention others, for a lively exchange of thoughts opened up some enticing vistas, and a few blind alleys. All the more surprising that the previous one in the series, with engineers, was apparently reported as 'apathetic.' If this was the latters' mood, one hopes that what was said in the recent Lords debate on the Grid's threat to amenities will snap them out of it (writes Basil Marriott).

Little apathy was perceptible on this occasion, and the next in the series—with horticulturalists—should provide even more, if narrower, common ground. Both 'camps' seemed agreed on collaboration and identity of aims in the creation or adaptation of an environment or ambience, or even the mere exploitation of its 'capabilities' (the alternatives are given *au choix* in view of the elusive



Shown above is the original design, by Mr. Arthur Ling, FRIBA, for the settings of the play 'Never Had It So Good' produced last week at the Belgrade Theatre, Coventry. To the right is a photograph of the actual set, which Mr. Ling has designed to give a 'planner's eye-view' of the city with crumbling Victorian slums giving way to new blocks of flats and a skyline pierced by church spires and contractors' cranes

definitions attempted in the search for a common language).

Mr. Ling seemed supported in his assumption that we were all fellow-designers with the architect as a super-co-ordinator, and Mr. Gruffyd's occasional mock-querulousness seemed applicable rather to clients than architects. Awkward questions of whose fees were to be forthcoming from whom were made secondary to the assurance expressed that architects, as always, would willingly abrogate a position they have so far held *faute de mieux* to specialists, provided these are trained analogously and speak the same language. On the whole a rewarding evening, even if it scratched a wide terrain rather shallowly.

AUSTRALIAN GOVERNMENT BUILDING.—*Commonwealth Centre, at the corner of Spring- and Latrobe-streets, Melbourne, the first of 10 similar blocks which will eventually house the Victorian branch offices of all Federal Government Departments. Built on the corner of a 9½-acre block, the building is a steel-framed and concrete structure, with aluminium sash-window curtain walls, having 11 storeys above ground and basement and accommodating 1,450 people in 126,000 sq. ft. of first-class office space. It was designed and constructed by the Department of Works. With street re-alignment, open areas and parking facilities, the centre will transform a shabby area of early pioneer dwellings*

Colour Trends

ONE IS LESS SURE of the relevance to architects or any other designers of the exhibition at the British Colour Council (until March 18) showing 'colour trends in interior decorations for 1960-61.' Though the BCC might reply that it is not primarily for them, I think this a pity and, as with all the Council's work, could wish its targets were clearer, as is suggested by the following batch of 'ifs.' For instance, if its research work is for members only, and its exhibitions for laymen who want or need to be told that 'the trend is now for softer colours,' let the BCC say so—as perhaps it does while one isn't listening.

If the creaky old trend-cycle thus really revolves in reverse, surely the people to tell are the shop-keepers, who can tell the manufacturers, who can then tell the designers. If on the other hand the limited object is achieved, the method adopted at Portman-square at least ensures that such important questions as tone, texture and juxtaposition are demonstrated. But the vital one—'for exactly what things, in what circumstances and surroundings and, above all, in what light?'—remain unanswered.

Direct Labour, Manchester

DIRECT LABOUR WORKS, with their political implications, have always been a source of lively contention in areas where municipal authorities operate such departments. This is no place to assess the advantages or otherwise of the system, though it may be said that under certain circumstances direct labour departments have a useful function to fulfil. Attempts to make just assessment are too often bedevilled by political action, and this may well have played too large a part in the current fuss at Manchester, which has led to the Corporation's requesting the Town Hall Works Manager's resignation and to an irresponsible proposal by a junior councillor that the City Architect's scalp be required, too. This latter motion was crushingly defeated, as it deserved to be. Those who know Mr. Leonard Howitt best will hardly be surprised to learn that, during the debate in council, the Corporation made clear that his personal integrity was not in any way in question; a similar statement was made in respect of Mr. Marsh, the Works Manager.

Meanwhile, the corporation is to consider the operational side of the Town Hall works department and decide future policy. We shall hope that this can be done in a calm atmosphere. The corporation, and indeed all municipalities which operate such departments, would be greatly helped if the Ministry of Housing and Local Government were to institute an official inquiry into the operation of direct labour; definement of the area of its usefulness could ease much heart-burning.

Modern Stained Glass

THE VAST LEGACY of poor or indifferent stained glass inherited from the nineteenth century has given rise to the belief that the making of stained glass windows is a lost art. That this is not so is made clear in an excellent pamphlet entitled 'How to Choose Stained Glass,' by the Dean of York (the Very Rev. Eric Milner-White, CBE, DSO, DD), reprinted from the 13th report of the Council for the Care of Churches and published by the Church Information Office (Church House, Dean's-yard, Westminster, SW1, price 1s. 5d. by post). The Dean explains clearly the principles of good stained glass making, emphasising that it is a two-dimensional 'mosaic' art and suggesting suitable subjects for interpretation. He urges all intending donors of windows to consult the Diocesan Committee at an early stage so as to obtain the services of artists whose work is 'original, competent and of a high standard.' The pamphlet, which is illustrated by eight examples of contemporary work in half-tone, should do much to bring about a better appreciation of the true nature of stained glass.

'New Sights of London'

UNDER THIS TITLE the London County Council has published a most excellent account of its work in the architectural and planning fields. Written by Richard Bennett, with photographs mainly by Michael Peto and maps by Colin Banks, this is a publication which any Londoner would be proud to find in a foreign visitor's hand; its Introduction, 'Plan for Living,' is in itself fully worth the modest half-crown which the publication costs, for it contains a summary of the County of London Plan's intentions and of the steps which have been taken to carry it out which is quite first-rate. 'The great public interest which was stimulated by the original County of London Plan seems, strangely, to have evaporated now that its proposals are moving from the drawing-board to the world we live in.' If this quotation from the introduction is true, it is possibly due to the fact that the overall picture has become blurred by the myriad individual building schemes now covering the Metropolis. This book should do something to clear the outlines, as should also an exhibition with the same title, now open (until April 1) at the Ceylon Tea Centre, Lower Regent-street, SW1.

POET'S CORNER

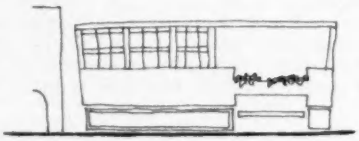
There was a young statesman named Marples
Who said 'We had better look sharples;
Upper floors we must pave
Or the outlook is grave—
We might just as well reach for our harples!'

ANON.

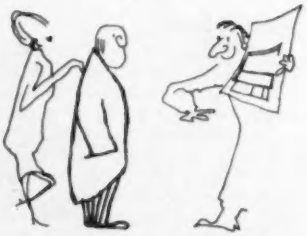
PANTOMIME by John Rae

Jack was a likely lad, and when an important site fell vacant in the centre of his village he had many ideas on how it should be developed. Everyone thought that that meant another bean-stalk, but he assured them that he had long since out-grown such childish ideas.

He now had a Diploma in Architecture, a pile of glossy magazines, a set of colour slides of a Stockholm suburb, and the AJ filing system complete except for the index. In fact he was raring to go, and his building looked like this



He had hoped to show this all to the local Baron, who had pots of the stuff,



and also ingratiate himself with his beautiful daughter called Jill. However, the Baron had other ideas. 'An expensive building on an expensive site should look expensive,' he said, and he called up King Rat on the 'phone and they discussed it

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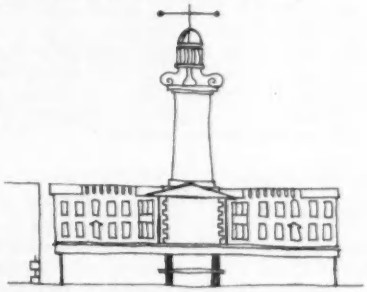
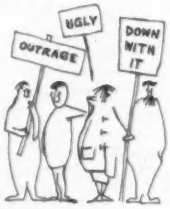
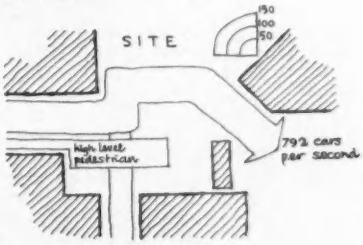
And they produced something like this

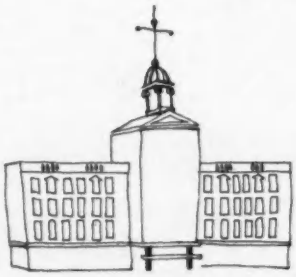


which the King Rat said was the cat's whiskers (and he was Jack's rival for the Baron's daughter in marriage), so there was obviously trouble ahead. The Cat, who was a self-styled authority on cat's whiskers, was Jack's constant companion, and she, together with all her kittens organised demonstrations against King Rat's building, and paraded the streets with slogans saying . . . . . .



but people just said 'What do those funny cats know about building?' and did not take any notice. So both designs were submitted independently to the King, who referred it all to the Giant. He lived in an enormous castle with miles of corridors and hundreds of offices. But they found that he had produced a design of his own, and expected any new development to conform with it, which wasn't difficult because he had a giant's eye view, and his design looked like this

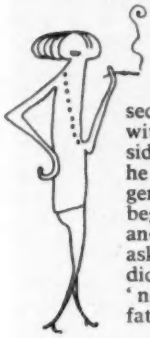




The Giant suggested certain amendments to both designs, and King Rat immediately brought his building into line and produced his Opus 2

turn quickly to next page

Jack was sorely tempted to do the same thing, especially as his poor old mother had not a bean left and had taken up busking for a living. He probably would have done but for two things. The first was a visit from his Fairy Godmother (disguised as an old college friend) who, in a remarkable dream sequence (disguised as a showing of his colour slides of the Stockholm suburb) revived in him the Spirit of Architecture, Beauty and Truth. The second thing was an unexpected meeting with Jill. She came down heavily on his side, called him 'dear boy' and said that he had 'vision' and the 'right idea' and generally made so much of him that he began to realise real values once again and, emboldened by her embraces, he asked her to marry him and, although she did not say 'yes,' well—she did not say 'no,' either. She obviously wanted her father's blessing.



ACT TWO

. . . and it looks as if neon-lighted evil will triumph, and we are all set for another visual disaster. And nothing could have prevented it had not the two comics chosen this moment to appear before the King. You will remember their act. There was the tall, thin, sad one, and the short, fat, funny one, and they built a scaffolding in front of an imaginary site and then tried to stick posters up, and kept falling off the ladder and getting mixed up. Then they got a funny car and turned it into a car park, and at this point the King said 'I wonder what *is* happening to that site?' and summoned everyone concerned to his Palace for a grand Inquiry.

So the final scene was set, and the Baron came under heavy fire from Jack, and so did the Giant when all of a sudden, through a hole in the ground, up popped the King Rat

At this nothing could contain the Cat who with a shriek of

rushed towards him. A fierce struggle ensued, and after a time it seemed as if the Rat must win when suddenly

After that, of course, there was nothing to it. The Cat beat the Rat. Jack became a famous architect, and quite able to support Jill without any need of the Baron's blessing. Just as well really, because he was heavily engaged in changing to the winning side and jumping onto the band waggon by marrying Jack's widowed mother. So there it is. Good triumphs over evil, and everyone lives happily ever after. But, of course, that was just a fairy story.

Conference of Architects and Builders

Spring Meeting at Oxford

THE WEEK-END residential conference of architects, quantity surveyors and builders arranged by the Southern Counties Consultative Committee of Architects and Builders, will be held at St. Edmund Hall, Oxford, from April 8 to 10. Following the inaugural dinner on Friday, April 8, Sir Edward Muir, KCB, Permanent Secretary to the Ministry of Works, will address the opening session. His subject will be 'The Client—What he needs and how he should behave;' Mr. W. S. Jones, FIOB, will be in the chair.

During the morning session on April 9 Mr. E. D. Jefferiss Mathews, OBE, FRIBA, ARICS, will speak on 'Organisation within the Industry.' Mr. P. H. P. Lovell, FIOB, will be in the chair and the discussion will be led by Mr. G. D. Walford, FRICS, FIArb, and Mr. R. H. Braybon, MBE, TD, FIOB. During the afternoon Mr. T. V. Prosser, FIOB, will speak on 'Contract Management and Organisation' with Mr. A. Burnand, FRICS, FIArb, in the chair. On April 10 Mr. Eric L. Bird, MBE, MC, ARIBA, will talk on 'Joint Education and Training for and within the Building Industry,' chairman Mr. R. Duncan Scott, FRIBA. A final summing up will be made by Mr. P. McGregor Corsar, JP, FRIBA, chairman of the Conference.

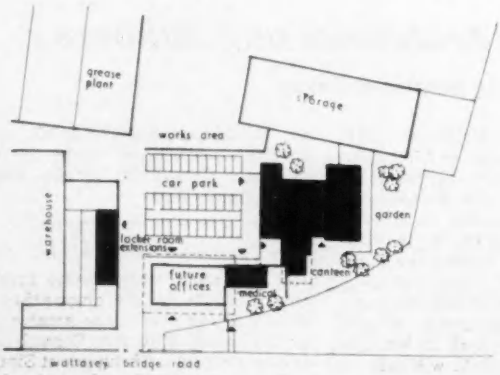
More Powers for the RFAC?

MISS JANE DREW AND MR. ERIC LYONS will open a debate on the proposition 'That this Club would welcome greater powers for the Royal Fine Art Commission' at an Architecture Club supper at Simpson's-in-the-Strand on Thursday, March 24 (7 for 7.30 p.m.).

Canteen and Recreation Block

For the Mobil Oil Company, Birkenhead

Staff dining room and games room over



BLOCK PLAN

THESE NEW FACILITIES for dining and recreation were opened recently at the Mobil Oil Company works at Birkenhead, for their 450 personnel. The facilities include a works dining hall, two staff dining rooms, kitchen, games room and lounge. At the same time, extensions were made to the existing locker rooms and the medical block.

The idea underlying the general design was to integrate completely the kitchen and other parts of the building with the dining rooms. The main hall of the kitchen is placed in the centre of the building, with dining rooms and service areas grouped around and above. In section, the kitchen is interlocked with the first floor by stepping up the ceiling over the kitchen for clerestory lighting. The smaller rooms on the first floor are at the higher level with a smaller floor to ceiling height. Thus there are no appendages—the only apartment to stand out as a separate entity is a large one, the main dining hall. All the rest, including the service yard, are enclosed within the main outlines.

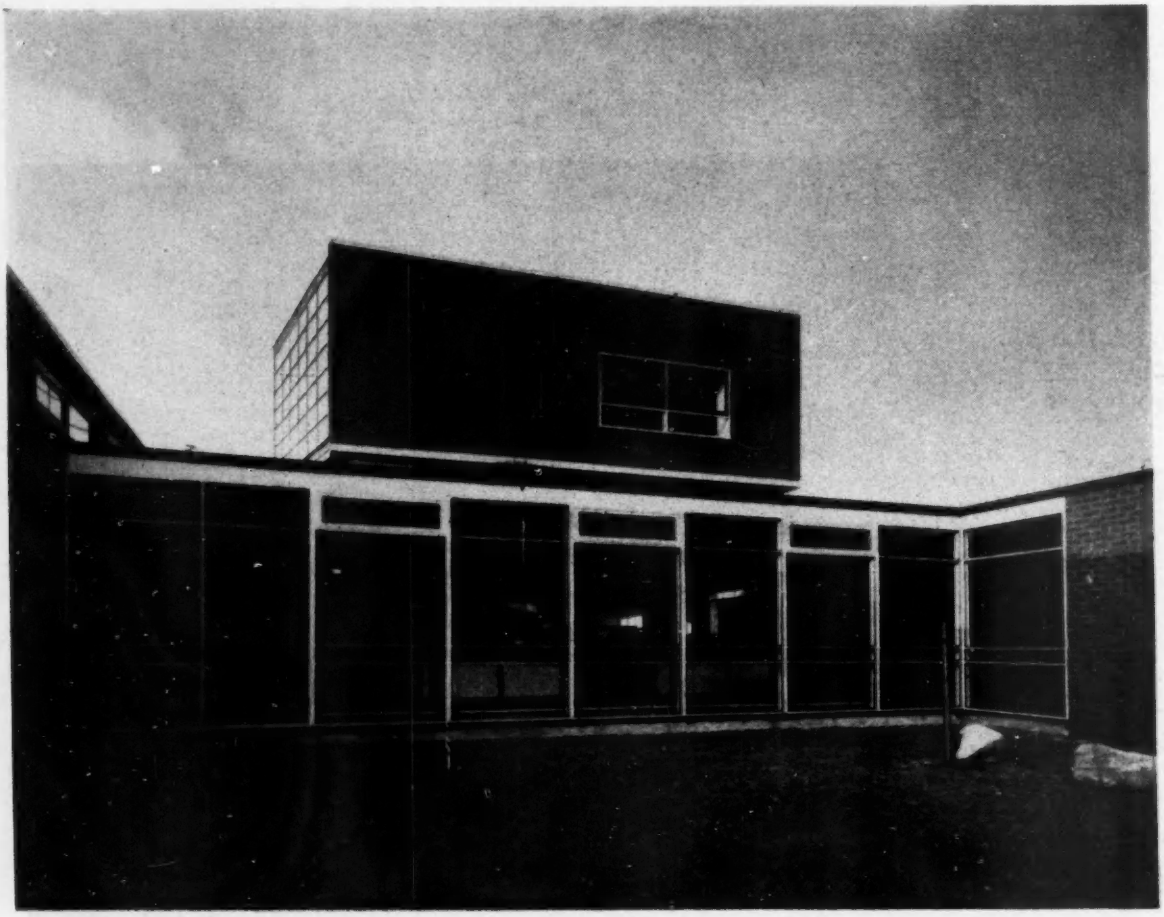
GRENFELL BAINES AND HARGREAVES, architects
S. H. TASKER, ARIBA, architect in charge
WM. MOSS & CO. LTD., general contractors

Main dining hall and paved terrace

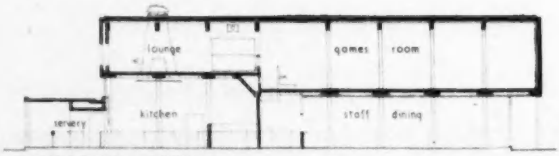
The two principal elevations face almost due north and south, the north façade being the entrance side facing the Company's works. These conditions suggested that the north wall should be solid and the south wall almost completely glazed. The orientation also meant that the main dining hall had to be on the opposite side to the approach from the works. This led to the experiment of placing the main servery in a corridor so that employees collect their meals on the way through to the dining room.

Both dining halls have large areas of glazing. In the larger room anti-glare panels are incorporated in the south wall and interlock with the columns and beams which penetrate the glazing. Whilst the main dining hall is a static composition, the staff dining room is much richer in form. Two staircases provide movement, and this is echoed in the plan by splayed walls. This room has large glass windows on two sides, but is given some measure of glare protection by the overhanging first floor.

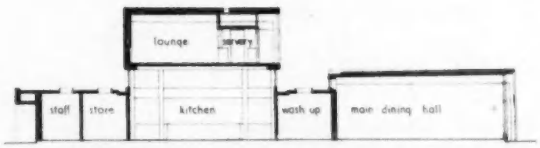
General view of the group



Corridor-servery into the main dining hall

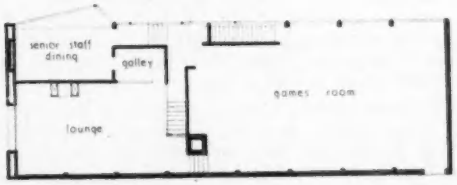


LONGITUDINAL SECTION

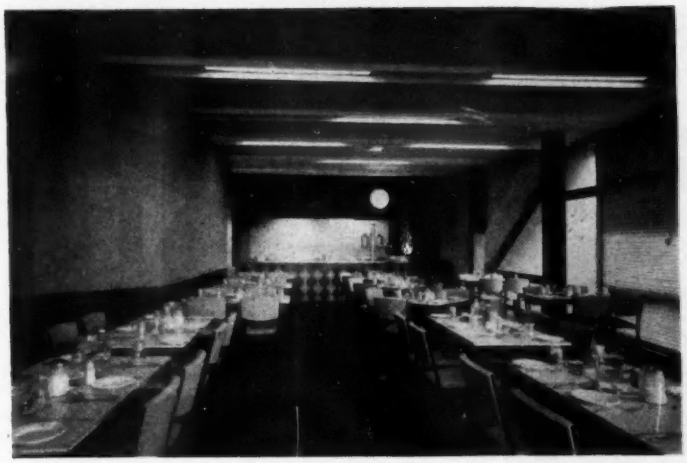


CROSS SECTION

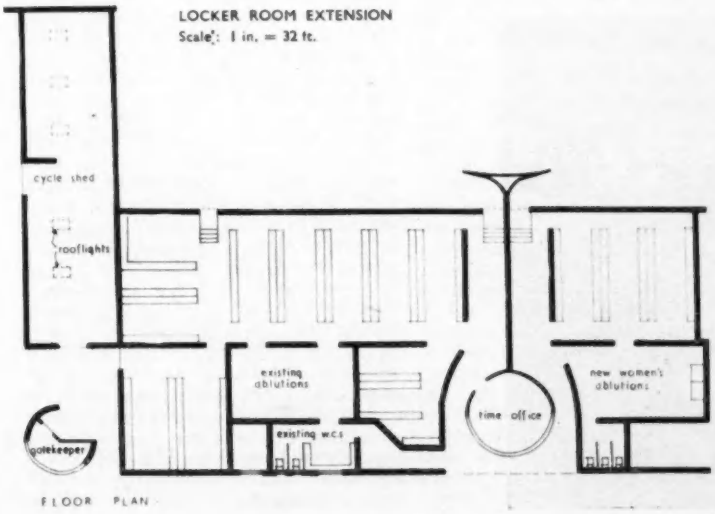
GROUND FLOOR PLAN



FIRST FLOOR PLAN



Staff dining room. Top, the games room



Final sun control in both rooms is by Venetian blinds. Artificial lighting in the staff dining room is completely recessed in the acoustic ceiling.

The first floor is reached by two staircases, one of which serves for evening use of the building.

At first floor level is the games room (billiards, table tennis, darts) and at a raised level there is a lounge with a bar, which also acts as a servery to a small private dining room for 12 people. One wall of this dining room is entirely glazed with opal glass, producing a milky white effect in a frame with proportions reminiscent of a Japanese paper screen. The end wall is veneered in Macassar ebony and the rear wall has a large scale wallpaper.

The structure of the building is principally of *in situ* reinforced concrete with an interesting first floor cantilever achieved in a small structural depth. The building is founded on piles. Internally, where possible, colour is obtained from materials. Joinery throughout is of Ghana mahogany, with doors veneered in Zebrano. Considerable use is made of tiles, white and dark blue. Floors in the user areas are woodblock with plain red clay tile in the service areas. Woodblocks are of West African mahogany and African Muhuhu. Ceilings are acoustic perforated fibre tiles in the dining rooms.

The kitchen is ventilated by a 36-inch extract fan centrally situated and capable of extracting 3,000 cubic feet of air per minute. This is replaced by blowing into the main dining hall warmed filtered fresh air which flows through to the kitchen, thus preventing cooking smells from moving into the dining areas. Additional heat is obtained from low pressure hot water radiators, and the staff dining room is heated by underfloor hot water coils.

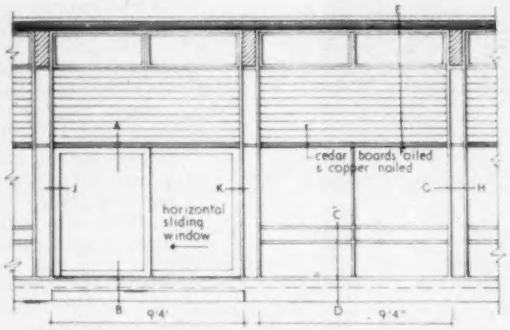
All the large rooms and spaces, including the servery corridor, are equipped with speakers connected to a built-in control unit housed in the rear wall of the main dining hall with facilities for announcements, music on records or radio programmes.

The total area of the restaurant is 6,200 sq. ft. and the recreation accommodation on the first floor adds a further 2,200 sq. ft.

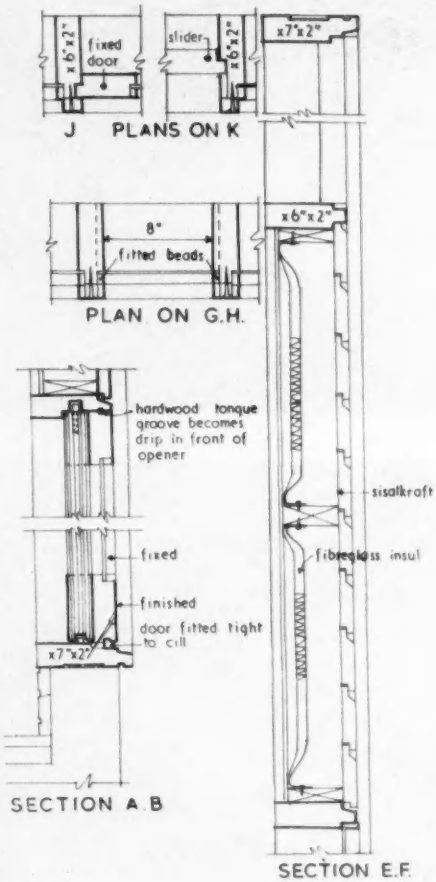
To assist the employee to relax completely during the lunch break, a garden is being created from lawn, gravels, cobbles and boulders. Trees will be sycamore, ash, wild cherry and goat willows.

Sub-contractors & suppliers:

Reinforced concrete: Truscon Ltd.; *heating & ventilating:* Matthew Hall & Co. Ltd.; *kitchen equipment:* Radiation Group Sales Ltd.; *painting:* Arnold Sharrocks Ltd.; *wood flooring:* R. W. Brooke & Co. Ltd.; *wall & floor tiling:* John Wallace & Sons Ltd.; *plumbing & joinery:* Wm. Moss & Co. Ltd.; *sanitary fittings:* Adamsez Ltd.; *electrical installation:* Foster & Done; *nurserymen:* Sutton & Carr; *glazing:* Compton Bros. (Glassworks) Ltd.



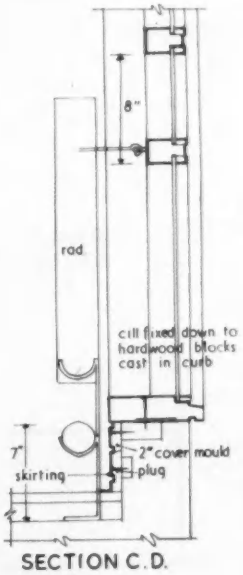
EXTERNAL WALL MAIN DINING HALL



Canteen and Recreation Block

Lounge and galley bar

Main dining hall



Detail of the south wall, main dining hall, scale: 1 in. to 1 ft. The structural columns are free-standing externally, and the glazed infilling wall runs continuously behind

Letters to the Editor

Technical Staff Salaries ; Cathedral Building ; Standard Form of Contract ; Permanent Employment of Operatives

Technical Staff Salaries

SIR,—Mr. H. C. Willis's letter ('The Builder' of February 26) regarding salaries paid to Council employees is somewhat frightening when looked at from a ratepayer's point of view, and also I venture to suggest, from his own. If he and his companions get their way, wages bills will increase sufficiently for councils to see the error of their ways and return to employing private firms for specific jobs. Then I suppose NALGO will complain about the problems of redundancy.

I would suggest that if Mr. Willis and his associates can bring themselves to give up the safe and sheltered life of a Local Government officer they should enter the competitive field of employment in private offices where they will receive the salary they can earn, or am I too cynical?

In conclusion may I say that I was a Local and Central Government official for nearly twenty years.

L. H. LOCKLEY [FRICS],
179 Lower Addiscombe-rd., Croydon.

Cathedral Building

SIR,—The death of Sir Giles Scott with his greatest work, Liverpool Anglican Cathedral, still unfinished 57 years after the winning of the competition, suggests some reflections on the great disparity in the time taken to erect buildings of this order. Many of the medieval cathedrals, of course, were several centuries in building and exhibit interesting changes and contrasts of style, Salisbury being exceptional inasmuch as it is almost entirely Early English and was built in the comparatively short time of 38 years (1220-58). By way of contrast St. Peter's, Rome, was 120 years (1506-1626) in building, under thirteen successive architects and twenty popes. Wren may be accounted extremely fortunate in the case of St. Paul's in view of the troublous times in which he lived, in seeing his great work virtually completed in 35 years (1675-1710), and in living for several years longer to enjoy a visit to it annually.

In our own time, which has been remarkable for cathedral building, experience has been strangely at variance in different cases. Scott's Anglican Cathedral at Liverpool does not appear likely to be completed for another fifteen years, which will make 72 years from start to finish. In the case of Lutyens's Roman Catholic Cathedral in the same city, started in 1929, only the crypt has been completed, and unhappily the ground superstructure will never be built. At the present moment architects are busy on competitive designs for a new superstructure which have to be in by August this year.

But for the war years, Sir Edward Maufe's design for Guildford Cathedral, accepted in 1936, would probably have been completed by now. Good progress has been made recently, the nave, the final section apart from the tower, being well on towards completion, and the building is expected to be opened for worship this year. It would seem, however, that a record for rapid building is likely to be set up at Coventry, where great progress is being made with Mr. Basil Spence's design, started as recently as 1951. According to reports it will be ready for consecration this year.

Other cathedral schemes now in hand (all involving extensions to existing ancient churches) include Sheffield (Mr. George Pace, architect), Bury St. Edmunds (Mr. S. E. Dykes-Bower, architect), and Portsmouth (for which the architects were Messrs. Nicholson and Corlette).

In this apparently irreligious age it is remarkable that so many of these great buildings should be in course of erection. As a result of private and public generosity they can be expected to be completed much more quickly than they would have been in the past, some of them even within the lifetime of their architects.

SPERO.

The Standard Form of Contract

SIR,—Readers will have been interested to note from your recent publication of the NFBTE annual report for 1959 that the new draft standard form of contract for building works has been generally agreed by all parties except for the difference of opinion over the retention of the penultimate paragraph of Clause 1 of the current edition.

I don't know what proposals may be still under discussion in this connection but I do know that considerable difficulty has been experienced because it has not been understood whether the paragraph in question is limited to the scope of items (a) to (f) of the first paragraph of the same clause. Many people agree that, to say the least, it is not very happily phrased.

The question of extra payment, if any, should be more properly the subject of Clause 9 the provisions of which, particularly sub-clause (b), are already wide enough to allay the fears expressed in the NFBTE report. At the same time, experience reveals that contractors have not generally received the full benefit of sub-clause 9(b) because of apparent reluctance by surveyors to use the quasi-arbitrary power it confers upon them. If this is the real problem, as I think it may be, the solution lies in a change of attitude by surveyors, and this would be reinforced by the deletion of the penultimate paragraph of Clause 1 in order to eliminate possible misunderstanding.

May I also suggest, in passing, that the new edition of the document under review become known as 'The J.C.T. Form'? This is not to depreciate the efforts of the pioneers whose work over the past fifty years or so has given to the industry a valuable heritage of experience in the rationalisation of contract matters; it is in recognition of the wider representation in the membership of the Joint Contracts Tribunal and in the hope that a more general use of the standard form of building contract will be evident in the future.

A. T. GINNINGS [FIQS, MRSH],
20 Alderdale-drive,
High Lane, Cheshire.

'Quick Fire and the Architect'

SIR,—I write in reference to the article 'Quick Fire and the Architect' contributed by a special correspondent in 'The Builder' of February 12.

While it is obvious the writer is knowledgeable on the subject, his advice to architects to seek information and guidance as to the fire protection of buildings from the Fire Service is, to say the least, misleading. As your correspondent undoubtedly knows, every local authority employs officers whose duty it is to advise the authority as to whether or not plans submitted to them for new buildings and structural alterations or extensions of existing buildings would comply with their building by-laws. These by-laws, of course, include by-laws concerned with the fire resistance of structural elements of buildings. They deal with the fire resistance and non-combustibility of materials to be used for external walls of buildings, staircase and lift enclosures and doors, fire division walls and partitions within buildings, and the fire protection of beams, columns and floors, the isolation of buildings from each other and from the boundaries of the premises on which a building is to be erected and indeed, every aspect of the construction of the building with relation to fire resistance.

It is logical and should be obvious therefore that the best advice will be obtained from those whose duty it is to apply and enforce the statutory law relating to these matters. In saying this I am not detracting in any way from the important part the Fire Service has to play. Its exclusive advice should be sought on matters relating to fire prevention, i.e., the means of access to buildings for fire fighting, the provision of hard standing for their larger appliances, the type, number and disposition of fire extinguishers in a building; water supply, rising mains, sprinkler systems, hose reels, fire alarms and many other matters of a similar nature.

Your correspondent also seems to be singularly ill-informed as to the general situation regarding by-law control existing at present throughout the country. Very briefly all local authorities other than the London County Council have building by-laws which, with very minor modifications to take into account any special local conditions, are reproductions of the Ministry of Housing and Local Government's model by-laws. It is the policy of the Minister that the law should be standardised throughout the country as much as possible. For this reason the Minister would refuse to confirm a local authority's by-laws unless

they were essentially and substantially the same as the model by-laws published by his Department. Should this occur, such an authority would then be without by-laws until and unless the Minister exercised his right to make by-laws for that authority, which by-laws would undoubtedly be as the model by-laws. Further, no local authority may relax their building by-laws unless they have first applied to the Minister and obtained his consent to do so in any special case.

GEO. H. BARRETT [ARICS],
10 Smirrells-road, Hall Green,
Birmingham.

Luncheon to Mr. T. E. Scott

SIR,—Mr. T. E. Scott, CBE, FRIBA, the Head of the Department of Architecture, Surveying and Building of the Northern Polytechnic, is retiring this year after 39½ years' service at the Polytechnic. Many past and present students feel this occasion should be marked by a special function at which they would have the opportunity of expressing their personal appreciation of Mr. Scott.

The undersigned consider the best form such a function should take would be a luncheon in London. May we, therefore, ask you Sir, to be good enough to give this matter the necessary publicity in your columns. Past and present students and staff wishing to be associated with this function are asked to write to Mr. S. J. Proops at 42 Upper Berkeley-street, London, W1.

M. L. WINSLADE [FRIBA], E. E. BARLOW [FRIBA], W. W. DOVE [FIOB], S. J. PROOPS [FIOB,] D. E. WOODBINE PARISH [FIOB], H. J. RAYNER [FRICS].

Permanent Employment of Operatives

SIR,—Oh how right is Mr. G. Elliott in his letter ('The Builder' of February 26). It is of course impossible to have permanent employment of operatives within the industry without distinguishing between the small local contractors and those that operate on a country-wide basis.

There is no reason why local labour with a local firm could not be engaged on a semi-permanent basis. It might be partially resented by the young bloods who maintain their right to go as and when they please and would no doubt give rise to persistent bleating from contractors who seem to have little knowledge whether they will be non-productive three weeks hence; both would be superseded in time.

The larger firm, however, employing their men solely for the duration of their contract, could not be made subject to the same conditions but they would be greatly improved by the institution of some form of notice, e.g., two weeks. This would obviate the unnecessary sacking of labour due to a change in programming and other unforeseen circumstances. Likewise labour would not be so fluid between large contracts within the same district because of possible differentials in incentive payments offered. The usual conditions could be imposed such as forfeiture of pay or pay in lieu of notice. This notice would have no effect at the termination of the contract when both employer and operative alike would be well aware of the impending conclusion.

What sort of deal is it that is being offered by the employers in their apprenticeship scheme when the greatest considerations should be promotion and stability, considerations which, of course, go hand in hand!

C. F. MINTER,
204 Caerleon-road, Newport, Mon.

Establishing Provincial Building Centres

SIR,—Considerable progress has been made with the scheme, supported by my council, for setting up a Building Centre in Manchester, and it is now expected that it will be opening in May next. More recently proposals have been adumbrated for setting up similar centres in other provincial towns. Such developments must obviously have a direct bearing on the whole future of the Building Centre movement and on the interests of exhibitors and my council feels that you will welcome a statement of its policy in dealing with applications for their support.

Building Centres as at present constituted, receive no Government support, but are entirely dependent for their income on the rents paid by exhibitors. If, therefore, additional centres are to serve their purpose they must be assured of adequate backing from exhibitors which in turn depends on their value to the building industry, including architects, surveyors and manufacturers, and not only as displaying the products of the industry in the fullest possible range, but also as providing technical information and advice.

My council is satisfied that there is now a good prospect of these objectives being reached at the proposed Manchester centre and it has every hope of a satisfactory outcome of discussions now proceeding in regard to a similar centre at Birmingham. Both centres will remain entirely independent financially with a constitution similar to that of the centre in London with which they will be affiliated and maintain a close association. My council is confident that these two new centres will facilitate the continuance of that high tradition of service which the centre in London has built up over the past 27 years, and it does not, for the present, contemplate supporting similar new activities elsewhere.

R. NOTT, Secretary,
The Building Centre, Store-street, WC1.

Commonwealth Centre, Oxford

QUEEN ELIZABETH HOUSE, the Oxford centre for Commonwealth studies, is to build an extension for which £75,000 has been raised by a private appeal to industry. The extension, adjoining the present 17th-century building in St. Giles', will raise the accommodation from a dozen to 25 students. The plans, by Mr. R. E. Enthoven, FRIBA, are designed to harmonise with the older building; they have been passed by the governing body, by the RFAC and the Oxford Planning Committee, but still have to go before the City Council. Work is expected to start this summer.

RIBA

Elections to Associateship

THE FOLLOWING 73 CANDIDATES for membership were elected on March 8 to Associateship of the Royal Institute of British Architects:

M. K. ALUSI: Dip.Arch.(Birm.) (Birmingham Sch. of Arch.).

LEO ARMITAGE: Dipl.Arch.(Leeds), (Leeds Sch. of Arch.).

B. D. BAGOT: B.A.(Arch.)(Lond.), (Bartlett Sch. of Arch.: Univ. of London).

(MISS) R. A. BAKER: Dip.Arch.(Birm.), (Birmingham Sch. of Arch.).

J. R. BARTON: (Leicester Coll. of Arch. and Tech.: Sch. of Arch.).

E. J. BRAY: (Final).

K. G. BRETTELL: Dip.Arch.(Birm.), (Birmingham Sch. of Arch.).

DEREK BROADBENT: (Leeds Sch. of Arch.).

RICHARD BULL: Dip.Arch.(Wales), (Welsh Sch. of Arch.: The Tech. Coll., Cardiff).

R. G. BURFOOT: Dip.Arch.(The Polytechnic), (The Poly., Regent Street, London: Sch. of Arch.).

D. R. BURTON: Dipl.Arch.(Oxford), (Sch. of Tech., Art and Commerce, Oxford: Sch. of Arch.).

C. A. CLOW: (Final).

(MISS) SUSAN J. CLUTTERBUCK: Dip.Arch. (Leics.), (Leicester Coll. of Art and Tech.: Sch. of Arch.).

ARCHIBALD CRAWFORD (Final).

P. A. CRIGHTON: Dip.Arch.(Leics.), (Leicester Coll. of Art and Tech.: Sch. of Arch.).

PETER CRIPWELL: Dip.Arch.(Birm.), (Birmingham Sch. of Arch.).

D. M. DANGERFIELD: (Leeds Sch. of Arch.).

J. W. C. DARBOURNE: B.A.(Arch.) (Lond.), (Bartlett Sch. of Arch.: Univ. of London).

R. S. DEEMING: Dip.Arch.(Birm.), (Birmingham Sch. of Arch.).

S. E. DOBSON: Dip.Arch.(Birm.), (Birmingham Sch. of Arch.).

G. C. DUFF: D.A.(Glas.), (Glasgow Sch. of Arch.).

T. L. C. FREEMAN: Dipl.Arch.(U.C.L.), (Bartlett Sch. of Arch.: Univ. of London).

K. GIBB: Dip.Arch.(Birm.), (Birmingham Sch. of Arch.).

ANDREW GILMOUR: D.A.(Edin.), (Edinburgh Coll. of Art; Sch. of Arch.).

P. S. GOLDSMITH: B.A.(Cantab.), (Bartlett Sch. of Arch.: Univ. of London).

B. GRIMES: Dip.Arch.(U.C.L.) (Bartlett Sch. of Arch.: Univ. of London).

RAYMOND HANDS: (Final).

(MRS.) E. M. HARRISON: B.Arch.(Dunelm), (King's Coll. (Univ. of Durham), Newcastle upon Tyne, Sch. of Arch.).

A. HEASMAN: (Final).

G. K. HENRY: Dip.Arch.(Leics.), (Leicester Coll. of Art and Tech.: Sch. of Arch.).

(MISS) M. H. HERCHENRODER: M.A. (Cantab.), Dipl.Arch.(U.C.L.), (Bartlett Sch. of Arch.: Univ. of London).

D. L. HUGHES: Dip.Arch.(Wales), (Welsh Sch. of Arch.: The Tech. Coll., Cardiff).

S. L. INGRAM: D.A.(Glas.), (Glasgow Sch. of Arch.).

R. C. INNOCENT: Dip.Arch(Wales), (Welsh Sch. of Arch.: The Tech. Coll., Cardiff).

D. W. JARRETT: Dipl.Arch.(Canterbury), (Canterbury Coll. of Art: Sch. of Arch.).

M. W. JEFFELS: Dipl.Arch.(Leeds), (Leeds Sch. of Arch.).

M. C. JEROME: B.Arch.(C.T.).

B. W. JOHNSON: Dip.Arch.(Leics.), (Leicester Coll. of Art and Tech.: Sch. of Arch.).

W. J. JUKES: Dip.Arch.(Birm.), (Birmingham Sch. of Arch.).

B. S. KERSHAW: Dipl.Arch.(Oxford), (Sch. of Tech. Art and Commerce, Oxford: Sch. of Arch.).

R. S. KNIGHT: (Royal West of England Academy, Bristol: Sch. of Arch.).

T. L. LORD: (Final).
E. G. LUCEY: (Final).
SIMPSON MCLEOD: D.A.(Glas.), (Glasgow Sch. of Arch.).
WILLIAM EDWIN MILNES: Dip.Arch.(Sheffield). (Univ. of Sheffield, Dept. of Arch.).
W. A. MITCHELL: Dipl.Arch.(Leeds), (Leeds Sch. of Arch.).
G. B. MOORE: Dip.Arch.(Birm.), (Birmingham Sch. of Arch.).
JOHN NEWTON: Dip.Arch.(Leics.), Leicester Coll. of Art and Tech.: Sch. of Arch.).
LESLIE NORRIS: (King's Coll., Univ. of Durham), (Newcastle upon Tyne, Sch. of Arch.).
D. S. OGLE: B.Arch.(Dunelm), (King's Coll., Univ. of Durham), (Newcastle upon Tyne, Sch. of Arch.).
CIARAN O'MAILLE: B.Arch.(N.U.I., Dublin), (Univ. Coll., Dublin, Ireland: Sch. of Arch.).
W. B. PALMER: Dip.Arch.(Wales), (Welsh Sch. of Arch.: The Tech. Coll., Cardiff).
F. A. PARKINSON: Dip.Arch.(Leeds), (Leeds Sch. of Arch.).
B. W. PAYNE: Dip.Arch.(Leics.), (Leicester Coll. of Art and Tech.: Sch. of Arch.).
D. J. PENN SMITH: Dip.Arch.(Leics.), Dip. T.P.(Dunelm), (Leicester Coll. of Art and Tech: Sch. of Arch.).
H. T. PHILIPS: Dip.Arch.(Leics.), (Leicester Coll. of Art and Tech.: Sch. of Arch.).
R. E. PHILLIPS: B.Arch.(Wales), (Welsh Sch. of Arch.: The Tech. Coll., Cardiff).
J. D. POUNTNEY: Dip.Arch.(Birm), (Birmingham Sch. of Arch.).
JOHN REDMAN: Dip.Arch.(Wales), (Welsh Sch. of Arch.: The Tech. Coll., Cardiff).
J. H. RICHARDS: Dip.Arch.(Birm.), (Birmingham Sch. of Arch.).
D. H. SHACKLETON: Dip.Arch.(Wales), (Welsh Sch. of Arch.: The Tech. Coll., Cardiff).
H. L. SHAH: Dip.Arch.(The Polytechnic), (The Poly, Regent-st., London: Sch. of Architecture).
PETER SMALLEY: (Final).
I. A. R. STEWART: Dip.Arch.(Oxford), (Sch. of Tech. Art and Commerce, Oxford: Sch. of Arch.).
J. E. H. TAYLOR: Dip.Arch.(Birm.), (Birmingham Sch. of Arch.).
G. P. THOMAS: Dip.Arch.(Wales), (Welsh Sch. of Arch.: The Tech. Coll., Cardiff).
J. R. L. G. THOMAS: B.A.(Arch.) (Lond.), (Bartlett Sch. of Arch.: Univ. of London).
S. O. H. ULANDER: D.A.(Glas.), (Glasgow Sch. of Arch.).
(MRS.) P. A. URRY: (Northern Poly. (London) Dept. of Arch.).
A. C. WALTERS: Dip.Arch.(Wales), (Welsh Sch. of Arch.: The Tech. Coll., Cardiff).
DEREK WARBURTON: (Special Final).
J. S. WOOTTON: (Special Final).
T. R. YOUNG: D.A.(Glas.), (Glasgow Sch. of Arch.).

The Profession in Contemporary Society

Mr. W. A. Allen's Paper to the RIBA

A PERSONAL BELIEF that architects as a profession, professions generally, and professions, science and industry together have entered a new period in the development of the scientific age 'in which the chief characteristic will be organisation for collective action on behalf of the community' was the conclusion reached by MR. W. A. ALLEN, BARCH (Manitoba), ARIBA, in an address delivered to the Royal Institute of British Architects at 66 Portland-place, W1, on March 8. Mr. Basil Spence, ARA, President, was in the chair.

Mr. Allen began by tracing the relationship of science, industry and the professions in which, he said, there was considerable animosity. This was damaging to society and must be replaced by mutual respect; this could best come by all three elements giving conscious recognition to the interdependence of their functions to enable this fundamental three-part mechanism of society to work at a high level of efficiency. One difficulty was that while the distinctions between pure and applied sciences had all but disappeared, the fragmentation of engineering activity had gone too far. 'Were we sensible,' Mr. Allen asked, 'to let circumstances arise which made a separate body for town-planning necessary? I doubt it. We see now some tendency to amalgamate among professional organisations, and I think it should be encouraged. Perhaps it will be part of the next stage of development, but if so, it is important that everyone should have a clear and unprejudiced picture of what society needs, and shape accordingly.'

W. A. Allen, ARIBA

The Nature of Professions

In discussing the nature of professions, the speaker said that while the essence of professionalism was the offering of a specialised and impartial intellectual service to the community, based on knowledge and experience, some implications were less clearly seen. A professional individual, for instance, was responsible personally for giving good advice to his clients, but his profession as a whole had a parallel responsibility to give good advice to the community on affairs within its sphere of interest and competence; a matter, in fact, must not only be within a profession's own sphere but the profession must be competent to have an opinion about it, which meant that it must have covered it in its training. 'The fact is,' said the lecturer, 'that professions are great and esteemed in accordance with the sense of responsibility they possess not only as individuals but also collectively.'

The architect's greatest difficulties sprang from the fact that he had to be at once artist, planner, technologist and man of business at a time when the art of architecture must still be experimental, planning had to meet fresh problems daily, technology seemed to expand like the universe, and new standards of management were demanded everywhere. It was occasionally said that architects tried to encompass too much, but to concede that would be to accept that the practice of architecture itself had become impracticable. 'We cannot do that,' said Mr. Allen, 'but we must recognise that our responsibilities call for the highest quality entrants, that they must be given a training of quite exceptional calibre, that we must have arrangements for a high-grade type of discussion and information service, and that we must maintain an efficient, liberal and powerful Institute mechanism.'

Problems of Education

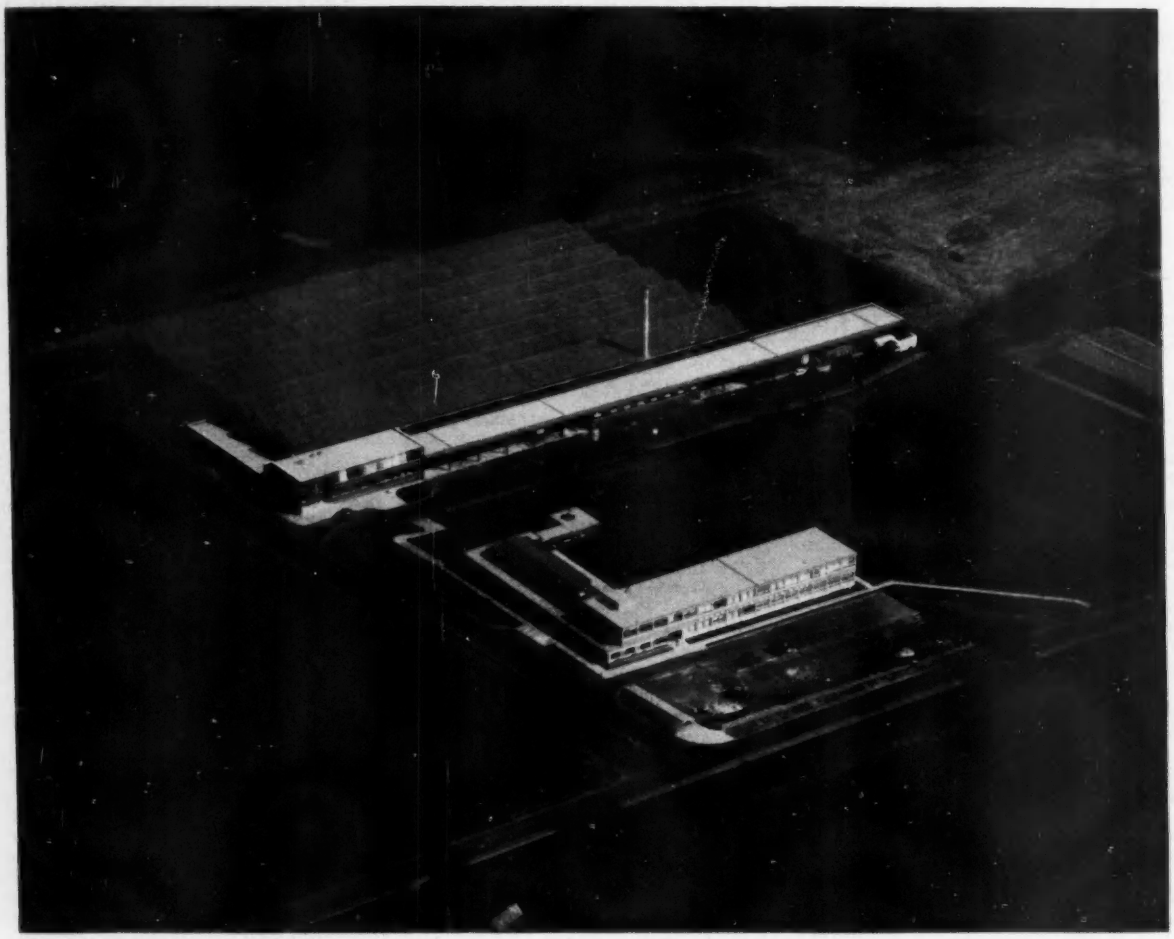
In regard to architectural education, the toughest problem faced lay in handling science and technology, said Mr. Allen. Not only was this the groundwork both of the architect's art and general competence but it was the vital training ground for the mind, the place to develop its capacity to think logically and incisively, to read widely and to understand, to innovate and to deal with innovation. Those were essential qualities for leaders to possess, and leadership fell to the architect's lot. There were some tenacious obstacles to overcome. For one, architects had been unable to free themselves from the handicap of books and teaching based on engineering. This was not to decry engineering for engineers but engineering for architects. What we had had, and still often got, were watered-down courses intended merely to make architects acquainted with subjects such as foundations, structures, light, heat, ventilation, sound, sanitation equipment, etc. It was said that there was no time for more, but more, if it were given, would at present probably lead only to more competence in computation, and that was not what architects mainly required. 'What they do require is not the mere acquaintance with those technologies nor yet a full-blown computational familiarity, but the basis for sound policy decisions about design, and that often involves not engineering alone but economic, industrial and human parameters,' said Mr. Allen. On the computational side, all that seemed necessary was a sufficient ability to carry out the engineering design necessary for small

(Continued on page 509)

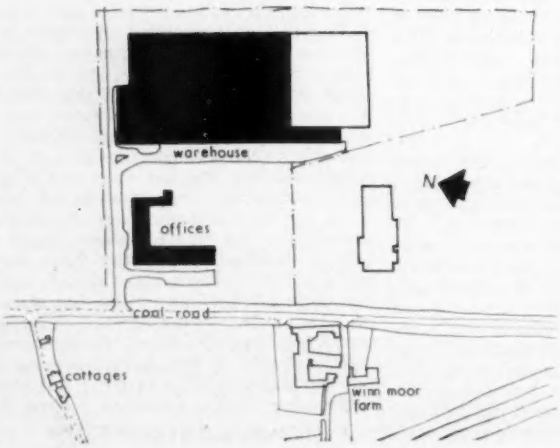
Head Office and Distribution Centre, Leeds

For The Saxone, Lilley & Skinner Group of Companies

MICHAEL H. EGAN, FRIBA, AADIPL, architect



Aerial view of the distribution centre which, being completely dependent upon road transport, has its own road network of 24 ft. carriageways, ample car parking space, and vehicle maintenance shop

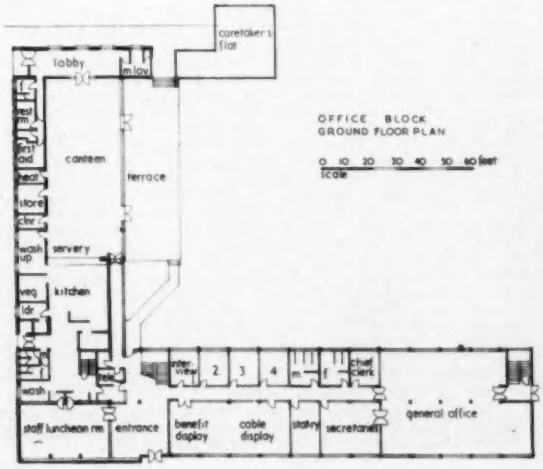


THIS LIGHT INDUSTRIAL DEVELOPMENT in the rural area of Seacroft, Leeds, provides a national distribution centre for the Saxone, Lilley & Skinner group, and new head offices for Benefit and Cable Shoes. The two groups of buildings cover an area of 140,000 sq. ft. and were completed in a contract period of ten months.

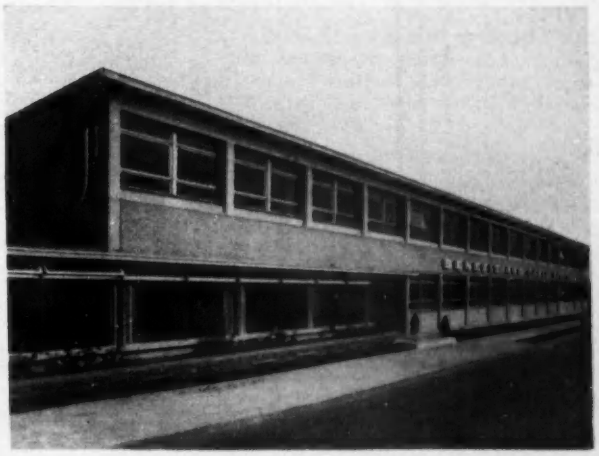
The warehouse is planned on the basis of automated processes, incorporating the latest devices in bulk storage and distribution with highly developed systems of internal and external communications, which were installed by Fisher & Ludlow, Ltd. The introduction of these modern communications and mechanised storage systems in a centralised warehouse, replacing eight smaller area warehouses in which much of the work was manual, has resulted in a considerable reduction in distribution costs. It has greatly improved also the speed and efficiency of deliveries to the group's 450 retail outlets, with a warehouse staff of approximately half the previous size. The method of handling is by a bank of 350 trolleys on which incoming supplies are loaded and then engaged to a 2,000 ft. towing conveyor, pulling at 45 ft. per min. and circuiting the stockroom and mezzanine floors in a period of

HARRY BROMPTON, MICE, MISTRUCT.E, consulting engineer
ROBERT G. MASON, FRICS, quantity surveyor
F. SHEPHERD & SON LTD., general contractors

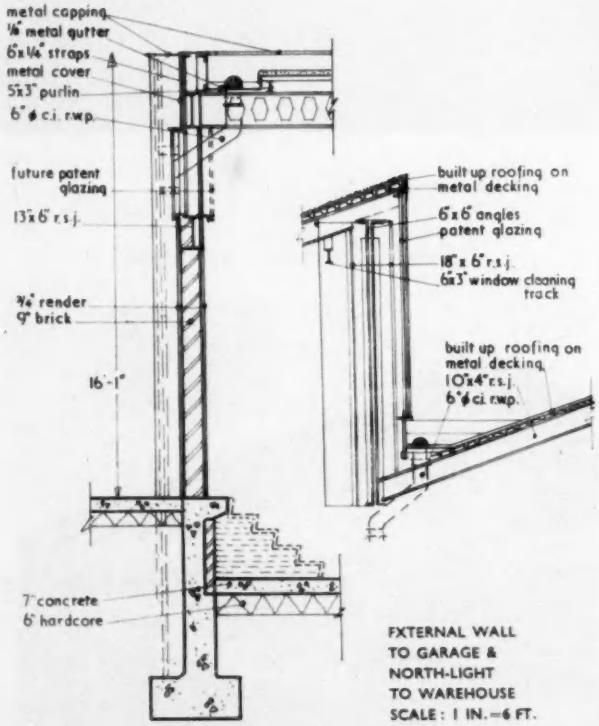
Warehouse offices and loading bays



Two-storey office and canteen wing



Interior of the warehouse showing the steel storage units and conveyance trolleys



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Chartered Surveyers' Annual Dinner

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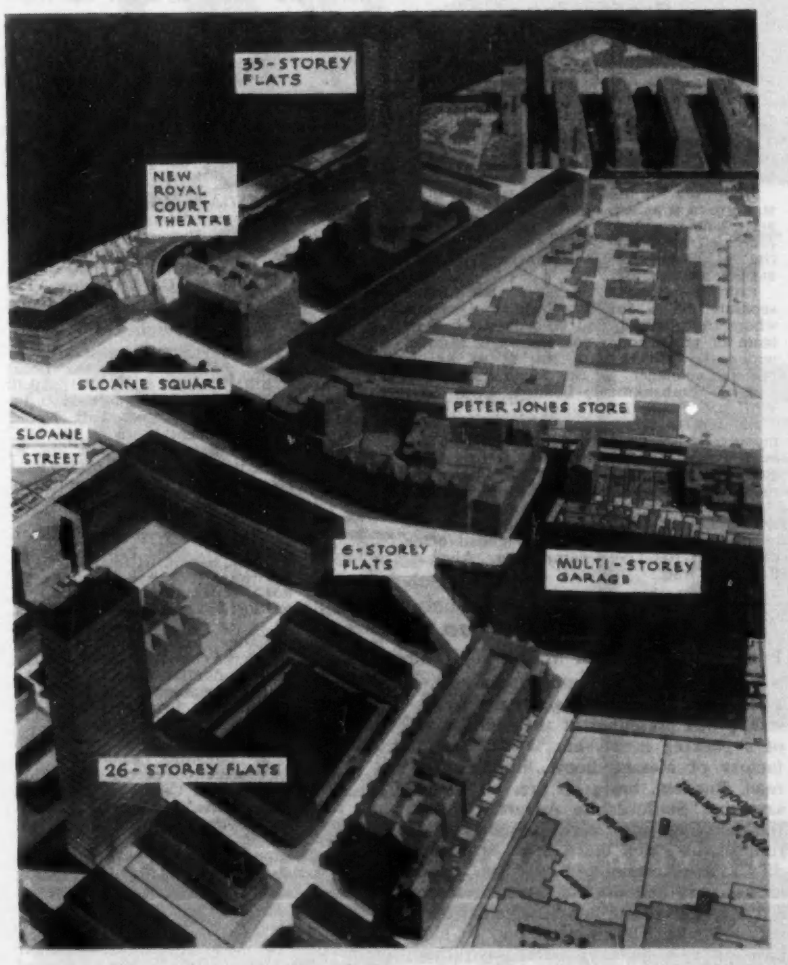

Model showing main features of the Cadogan Estate redevelopment scheme

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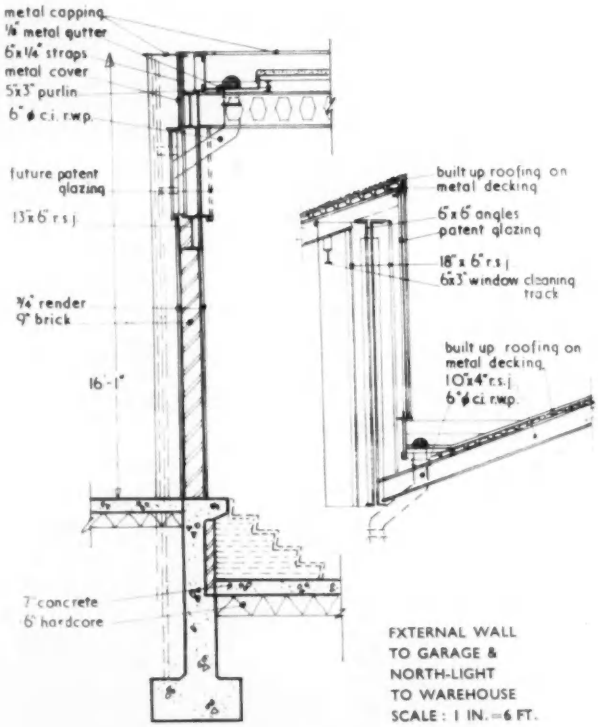

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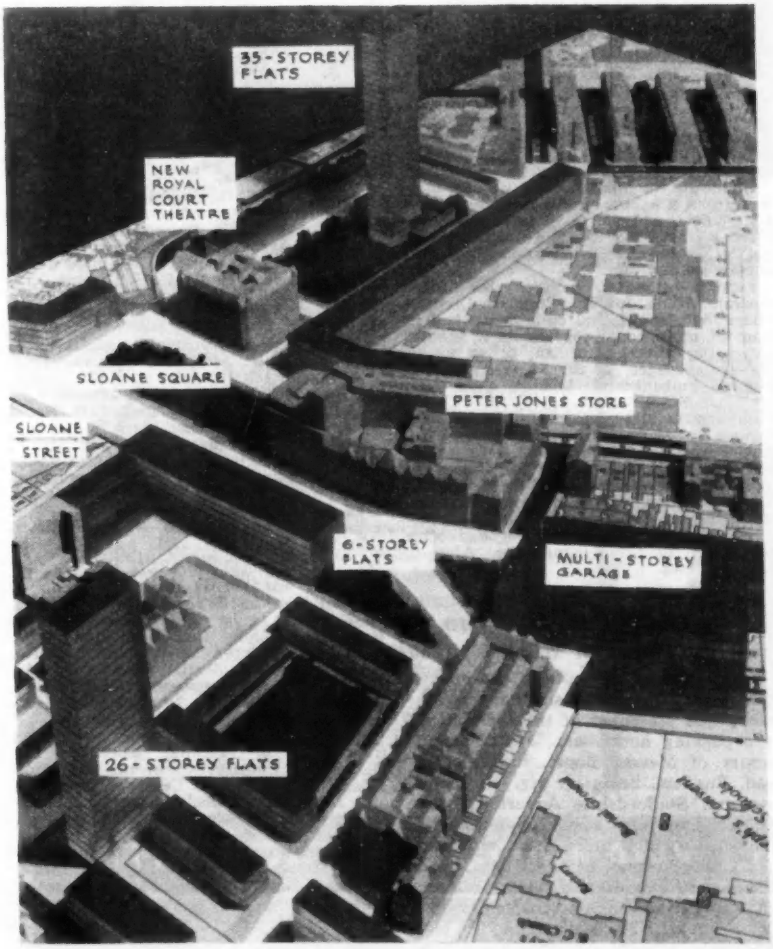

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Spragg's services in the cause of Commonwealth relations undertaken in two tours of Canada during his secretaryship of the RIBA.

'Thinking About Building'

MR. PETER TRENCH, OBE, director of the National Federation of Building Trades Employers, is to give a talk to the RIBA, 66 Portland-place, W1, on March 22 at 6 p.m., on 'Thinking Ahead About the Building Industry.'

Hospital Sanitation

A PAPER on 'Hospital Sanitation' will be given by Mr. D. A. Goldfinch, FRIBA, at the Royal Society of Health, 90 Buckingham Palace-road, London, SW1 on March 24. The lecture will cover sterilization, cross infection, etc., as well as pure drainage requirements. Sir Allen Daley, MD, chairman of the Chadwick Trustees, will preside.

Managing London's Housing

THE LCC'S establishment committee proposes the creation of a new division of the housing management department to cope with work arising from the increased number of housing schemes to be allocated to private architects and from an enlargement of management functions in relation to new housing. The new division, with a new assistant director of housing (who will be Mr. A. O. Squires, ARICS, with a salary scale of £2,400 to £2,700) and the reorganised management division will need 20 new additional staff at a cost of about £25,500 a year ultimately.

'Team Work in Building'

A one-day conference on 'Team Work in Building' has been arranged for Friday, April 1, at the University Arms, Cambridge. This conference, the first of its kind in East Anglia, will be held under the auspices of the Eastern Counties Joint Consultative Board of Architects, Quantity Surveyors and Builders. The theme will be how best to ensure efficient and economic building through a proper appreciation of the professional and managerial functions and responsibilities of all those concerned. There will be four one-hour sessions, commencing at 10.30 a.m., with each paper to be followed by questions and discussion.

Programme as follows: 'The Requirements of the Client,' by Mr. C. A. W. Harmer (chairman, Mr. L. H. Caston); 'The Role of the Architect,' by Mr. E. D. Jefferiss Mathews (chairman, Mr. D. M. Chaston); 'The Function of the Quantity Surveyor,' by Mr. E. Norman Harris (chairman, Mr. H. Conolly); 'The Needs and Responsibilities of the Builder,' by Mr. T. V. Prosser (chairman, Mr. S. E. Bragg).

The conference is limited to 60—twenty from each of the constituent bodies. Applications to Mr. R. W. Porter at 95 Tenison-road, Cambridge.

Building High

MR. NORMAN WAKEFIELD, contract manager, Messrs. Wates, Ltd., is to give an illustrated talk on the subject of building management, planning, site organisation, and the structural requirements for tall buildings at the Hammersmith College of Art and Building, Lime-grove, W12, on March 17. The lecture, which is sponsored by the Ministry of Works in association with the London Building and Civil Engineering Joint Committee and the governors and principal of the Hammersmith College, will begin at 7.15 p.m. and will be followed by an informal discussion.

Bucks County Planner

BUCKS COUNTY COUNCIL have appointed as from August next Mr. Fred Pooley, FRIBA, FRICS, AMTPI, the County Architect, as County Planning Officer. He will hold the two posts concurrently.

Warwickshire Deputy Architect

MR. KENNETH ALLERTON, ARIBA, at present principal assistant architect in the Nottinghamshire County Architect's office, has been appointed Deputy County Architect, Warwickshire. He takes up his duties on April 4.

Vacant Post

DURHAM COUNTY COUNCIL invite applications by March 28 for the post of County Architect. Salary £3,740 rising to £4,145 per annum. Details advertised in this issue.

Professional Announcements

MESSRS. HUGH MACINTOSH & PARTNERS, chartered architects, announce the dissolution of their partnership as from March 31. Thereafter MR. L. A. MACINTOSH, ARIBA, and MR. H. S. HAINES, ARIBA, will practise from 33 & 35 High-street, Croydon (tel.: Croydon 5780) as MESSRS. L. A. MACINTOSH & HAINES.

Following the dissolution of MESSRS. HUGH MACINTOSH & HAINES on March 31, MR. C. E. F. BUHL, LRIBA, and MR. D. W. JOEL, LRIBA, will practise from 33 & 35 High-street, Croydon (tel.: Croydon 1890) as MESSRS. CHARLES BUHL & DUDLEY JOEL.

FACTORY PLANNING LIMITED has formed separate offices for its Projects Division, where the planning and co-ordination of its team of professional consultants is handled under the direction of MR. D. W. STAKE, projects manager, at St. Stephen's House, Victoria Embankment, London, SW1 (tel.: Whitehall 7488).

MR. MARTIN SILVERSTONE, ARICS, has commenced in practice at Finsbury Court, Finsbury Pavement, London, EC2 (tel.: Moorgate 8311), where he will be pleased to receive catalogues and trade literature.

MESSRS. BOND, FOSTER & PARTNERS, chartered quantity surveyors of London and Birmingham, have moved their Baghdad office to House No. 796, Faraj-street, Alwiyat, Baghdad, Iraq.

A Hundred Years Ago

From The Builder of March 10, 1860

FOUNDATIONS OF BUILDINGS ON FIRE.—For several days the singular circumstance was presented of the foundations of a packing house, etc., at the manufactory of Messrs. Boote, in Waterloo-road, Burslem, being on fire. It seems, says the 'Staffordshire Advertiser,' that the building rests on a foundation of rubbish, in which there is an admixture of a kind of cannel coal, and this, there is reason to believe, had taken fire from a flue in the saggar house, which is on a very low level. By means of the fire-plug hose a large quantity of water was turned into the foundations, and the fire appears to be now subdued.

Coming Events

SATURDAY, MARCH 12

PROVIDENT INSTITUTION OF BUILDERS' FOREMEN & CLERKS OF WORKS.—Annual ladies' festival. Café Royal, Regent-st., W1. 6 p.m.

MONDAY, MARCH 14

THE PLANNING CENTRE.—Symposium on: 'Town Centres in the New Towns.' 28 King-st., Covent Garden, London, WC2. 6.30 p.m.

TUESDAY, MARCH 15

INSTITUTE OF BUILDERS, BIRMINGHAM CENTRE (LICENTIATE DISCUSSION CLUB).—'Birmingham Builds,' by Mr. J. R. Sheridan-Shedden. The Grand Hotel, Birmingham. 7 p.m.

INSTITUTION OF CIVIL ENGINEERS.—Joint meeting with RIBA: 'Impact of Motorways on Cities,' by Mr. F. Gibberd and Mr. R. Nicholas. 66 Portland-pl., W1. 6 p.m.

BBC (NETWORK THREE).—'Building Matters.' 7 p.m.

INSTITUTE OF BUILDERS, LEEDS & DISTRICT CENTRE (LICENTIATE DISCUSSION CLUB).—'The Latest Developments in Contractors' Plant,' by Mr. H. Ingle. The Griffin Hotel, Boar-la., Leeds. 7.30 p.m.

IMPORTED FIBRE BUILDING BOARD FEDERATION.—Annual dinner. Sir Harry Pilkington, principal guest. Grosvenor House, W1. 7.45 p.m.

WEDNESDAY, MARCH 16

LONDON UNIVERSITY.—'Late Gothic Sculpture in Germany,' by Prof. W. Paatz. Courtauld Institute of Art, 20 Portman-sq., W1. 5.30 p.m. (to be repeated on March 17).

NATIONAL FEDERATION OF TERRAZZO-MOSAIC SPECIALISTS.—Dinner and dance. Café Royal. 6 p.m.

REINFORCED CONCRETE ASSOCIATION.—Joint meeting with Institution of Structural Engineers: 'A Further Report on the Work of the European Committee on Concrete,' by Prof. A. L. L. Baker. 11 Upper Belgrave-st., SW1. 6 p.m.

THE INSTITUTE OF BUILDERS.—Practice Arbitration. Mr. J. R. W. Alexander, CBE, Arbitrator. RIBA, 66 Portland-pl., W1. 6.30 p.m.

THURSDAY, MARCH 17

COMBUSTION ENGINEERING ASSOCIATION (MIDLAND REGION).—Discussion: 'Research Towards Improving Mechanisation and Automatic Control in Industrial Coal Fired Boiler-houses,' opening by Mr. G. G. Thurlow. The Birmingham Exchange and Engineering Centre, Stephenson-pl., Birmingham, 2. 10.15 a.m.

TOWN & COUNTRY PLANNING ASSOCIATION.—Conference on: 'Planning and the Local Government Bill.' Caxton Hall, SW1. 10.30 a.m.

ARCHITECTURAL ASSOCIATION.—Talk No. 2 on Housing Development Work by the LCC—'Windows,' by Mr. O. Cox and Mr. R. Purdew. 36 Bedford-sq., WC1. 6.15 p.m.

HAMMERSMITH COLLEGE OF ART & BUILDING.—Lecture: 'Building High,' by Mr. N. Wakefield. 7.15 p.m.

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Spragg's services in the cause of Commonwealth relations undertaken in two tours of Canada during his secretaryship of the RIBA.

'Thinking About Building'

MR. PETER TRENCH, OBE, director of the National Federation of Building Trades Employers, is to give a talk to the RIBA, 66 Portland-place, W1, on March 22 at 6 p.m., on 'Thinking Ahead About the Building Industry.'

Hospital Sanitation

A PAPER on 'Hospital Sanitation' will be given by Mr. D. A. Goldfinch, FRIBA, at the Royal Society of Health, 90 Buckingham Palace-road, London, SW1 on March 24. The lecture will cover sterilization, cross infection, etc., as well as pure drainage requirements. Sir Allen Daley, MD, chairman of the Chadwick Trustees, will preside.

Managing London's Housing

THE LCC'S establishment committee proposes the creation of a new division of the housing management department to cope with work arising from the increased number of housing schemes to be allocated to private architects and from an enlargement of management functions in relation to new housing. The new division, with a new assistant director of housing (who will be Mr. A. O. Squires, ARICS, with a salary scale of £2,400 to £2,700) and the reorganised management division will need 20 new additional staff at a cost of about £25,500 a year ultimately.

'Team Work in Building'

A one-day conference on 'Team Work in Building' has been arranged for Friday, April 1, at the University Arms, Cambridge. This conference, the first of its kind in East Anglia, will be held under the auspices of the Eastern Counties Joint Consultative Board of Architects, Quantity Surveyors and Builders. The theme will be how best to ensure efficient and economic building through a proper appreciation of the professional and managerial functions and responsibilities of all those concerned. There will be four one-hour sessions, commencing at 10.30 a.m., with each paper to be followed by questions and discussion.

Programme as follows: 'The Requirements of the Client,' by Mr. C. A. W. Harmer (chairman, Mr. L. H. Caston); 'The Role of the Architect,' by Mr. E. D. Jefferiss Mathews (chairman, Mr. D. M. Chaston); 'The Function of the Quantity Surveyor,' by Mr. E. Norman Harris (chairman, Mr. H. Conolly); 'The Needs and Responsibilities of the Builder,' by Mr. T. V. Prosser (chairman, Mr. S. E. Bragg).

The conference is limited to 60—twenty from each of the constituent bodies. Applications to Mr. R. W. Porter at 95 Tenison-road, Cambridge.

Building High

MR. NORMAN WAKEFIELD, contract manager, Messrs. Wates, Ltd., is to give an illustrated talk on the subject of building management, planning, site organisation, and the structural requirements for tall buildings at the Hammersmith College of Art and Building, Lime-grove, W12, on March 17. The lecture, which is sponsored by the Ministry of Works in association with the London Building and Civil Engineering Joint Committee and the governors and principal of the Hammersmith College, will begin at 7.15 p.m. and will be followed by an informal discussion.

Bucks County Planner

BUCKS COUNTY COUNCIL have appointed as from August next Mr. Fred Pooley, FRIBA, FRICS, AMTPI, the County Architect, as County Planning Officer. He will hold the two posts concurrently.

Warwickshire Deputy Architect

MR. KENNETH ALLERTON, ARIBA, at present principal assistant architect in the Nottinghamshire County Architect's office, has been appointed Deputy County Architect, Warwickshire. He takes up his duties on April 4.

Vacant Post

DURHAM COUNTY COUNCIL invite applications by March 28 for the post of County Architect. Salary £3,740 rising to £4,145 per annum. Details advertised in this issue.

Professional Announcements

MESSRS. HUGH MACINTOSH & PARTNERS, chartered architects, announce the dissolution of their partnership as from March 31. Thereafter MR. L. A. MACINTOSH, ARIBA, and MR. H. S. HAINES, ARIBA, will practise from 33 & 35 High-street, Croydon (tel.: Croydon 5780) as MESSRS. L. A. MACINTOSH & HAINES.

Following the dissolution of MESSRS. HUGH MACINTOSH & HAINES on March 31, MR. C. E. F. BUHL, LRIBA, and MR. D. W. JOEL, LRIBA, will practise from 33 & 35 High-street, Croydon (tel.: Croydon 1890) as MESSRS. CHARLES BUHL & DUDLEY JOEL.

FACTORY PLANNING LIMITED has formed separate offices for its Projects Division, where the planning and co-ordination of its team of professional consultants is handled under the direction of MR. D. W. STAKE, projects manager, at St. Stephen's House, Victoria Embankment, London, SW1 (tel.: Whitehall 7488).

MR. MARTIN SILVERSTONE, ARICS, has commenced in practice at Finsbury Court, Finsbury Pavement, London, EC2 (tel.: Moorgate 8311), where he will be pleased to receive catalogues and trade literature.

MESSRS. BOND, FOSTER & PARTNERS, chartered quantity surveyors of London and Birmingham, have moved their Baghdad office to House No. 796, Faraj-street, Alwiyat, Baghdad, Iraq.

A Hundred Years Ago

From The Builder of March 10, 1860

FOUNDATIONS OF BUILDINGS ON FIRE.—For several days the singular circumstance was presented of the foundations of a packing house, etc., at the manufactory of Messrs. Boote, in Waterloo-road, Burslem, being on fire. It seems, says the 'Staffordshire Advertiser,' that the building rests on a foundation of rubbish, in which there is an admixture of a kind of cannel coal, and this, there is reason to believe, had taken fire from a flue in the saggar house, which is on a very low level. By means of the fire-plug hose a large quantity of water was turned into the foundations, and the fire appears to be now subdued.

Coming Events

SATURDAY, MARCH 12

PROVIDENT INSTITUTION OF BUILDERS' FOREMEN & CLERKS OF WORKS.—Annual ladies' festival. Café Royal, Regent-st., W1. 6 p.m.

MONDAY, MARCH 14

THE PLANNING CENTRE.—Symposium on: 'Town Centres in the New Towns.' 28 King-st., Covent Garden, London, WC2. 6.30 p.m.

TUESDAY, MARCH 15

INSTITUTE OF BUILDERS, BIRMINGHAM CENTRE (LICENTIATE DISCUSSION CLUB).—'Birmingham Builds,' by Mr. J. R. Sheridan-Shedden. The Grand Hotel, Birmingham. 7 p.m.

INSTITUTION OF CIVIL ENGINEERS.—Joint meeting with RIBA: 'Impact of Motorways on Cities,' by Mr. F. Gibberd and Mr. R. Nicholas. 66 Portland-pl., W1. 6 p.m.

BBC (NETWORK THREE).—'Building Matters.' 7 p.m.

INSTITUTE OF BUILDERS, LEEDS & DISTRICT CENTRE (LICENTIATE DISCUSSION CLUB).—'The Latest Developments in Contractors' Plant,' by Mr. H. Ingle. The Griffin Hotel, Boar-la., Leeds. 7.30 p.m.

IMPORTED FIBRE BUILDING BOARD FEDERATION.—Annual dinner. Sir Harry Pilkington, principal guest. Grosvenor House, W1. 7.45 p.m.

WEDNESDAY, MARCH 16

LONDON UNIVERSITY.—'Late Gothic Sculpture in Germany,' by Prof. W. Paatz. Courtauld Institute of Art, 20 Portman-sq., W1. 5.30 p.m. (to be repeated on March 17).

NATIONAL FEDERATION OF TERRAZZO-MOSAIC SPECIALISTS.—Dinner and dance. Café Royal. 6 p.m.

REINFORCED CONCRETE ASSOCIATION.—Joint meeting with Institution of Structural Engineers: 'A Further Report on the Work of the European Committee on Concrete,' by Prof. A. L. L. Baker. 11 Upper Belgrave-st., SW1. 6 p.m.

THE INSTITUTE OF BUILDERS.—Practice Arbitration. Mr. J. R. W. Alexander, CBE, Arbitrator. RIBA, 66 Portland-pl., W1. 6.30 p.m.

THURSDAY, MARCH 17

COMBUSTION ENGINEERING ASSOCIATION (MIDLAND REGION).—Discussion: 'Research Towards Improving Mechanisation and Automatic Control in Industrial Coal Fired Boilerhouses,' opening by Mr. G. G. Thurlow. The Birmingham Exchange and Engineering Centre, Stephenson-pl., Birmingham, 2. 10.15 a.m.

TOWN & COUNTRY PLANNING ASSOCIATION.—Conference on: 'Planning and the Local Government Bill.' Caxton Hall, SW1. 10.30 a.m.

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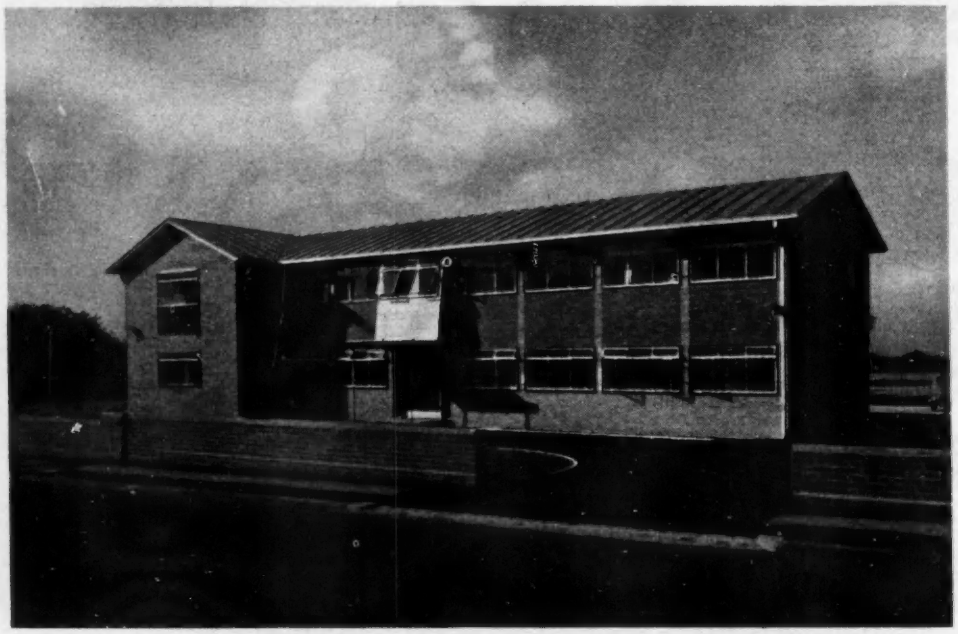

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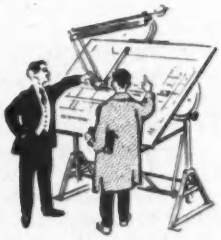

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The Profession in Contemporary Society

(*Continued from page 503*)

jobs on which consultation was impracticable. On the larger jobs the approach described ought to improve architects' work with consultants.

'One or two courageous but insufficient moves have been made,' continued the speaker. 'The RIBA textbooks committee has for 15 years strained at the production of suitable books for these and other such needs, and special courses of advanced training for teachers have recently been organised. One or two of the subjects, especially structures, have already had imaginative treatment in some schools. Nevertheless, something radical in type and degree is now needed in the way of improvement.'

Decisions About Cost

A second matter needed in architectural education was a determined and sustained effort to formulate ways of reaching balanced and factual decisions about cost from the earliest stages of a design. 'This is being introduced now into schools of architecture, but I would like to urge,' said Mr. Allen, 'that at the same time cost-management should be set in the right framework for a profession in our position. It must be linked to national economic planning and money policies, and include the methods of financing buildings as well as their true costs in use. Our concern must be not only for individual buildings but for the nation's building.'

That led naturally towards a third educational concern, which was the attitude architects cultivated towards professionalism. Architects, he thought, did not have a strong collective sense of professionalism, mainly because they had not brought into sharp focus a sense of social purpose—they had not identified a specific major responsibility to society which society itself saw and shared. We all knew what we as individuals expected of our doctors, and the State knew what it expected of the medical profession. Architects saw and believed in the value of what they did, both for the economy of the country and for the human spirit, and there was an encouraging awareness of it in the community, but not yet a feeling of indispensability; it was obvious that the country as a whole had not yet crossed the border-line from 'desirability' to 'indispensability' in their view of the architect's services.

'As a profession we have become the channel for the largest single sector of the community's fixed capital investment, with a general responsibility for an expenditure of somewhere between £700m. and £800m. annually; realisation of what this means in terms of responsibility to the community will, I hope, give us the focus I believe we need for a stronger collective sense of professionalism, and give a specific scale and purpose to our work in the eyes of the public,' declared Mr. Allen. 'Yet in our concern for improvements let us not play down matters which we have pioneered and developed to strength as studies: town planning and the design of environment, especially in the sense of its effect upon the human spirit; and planning as a general skill. These are valuable achievements to have consolidated, and the latter remains unique in the world of education.'

The purpose of his paper, Mr. Allen continued, like that on 'The Case for a Learned Society' read by Mr. E. J. Carter in 1938, was to say 'This is a moment to contemplate our future.' Since the war active interests had developed in all sorts of matters affecting architects but on a curiously informal pattern. Before the war the RIBA meetings tended to follow a tradition of learned discussions whose chief distinction was their civilised character and whose chief fault was that they passed over some of the problems of the day. In recent years discussions developed along a functional approach, identifying matters that needed discussion and designing each time the types of meeting that seemed best for the purpose. Matters such as design, in the sense in which we used that term, or the needs of man in a cultural or philosophic sense, which to architects seemed necessary to give purpose and direction to technology, did not normally receive attention.

The Right Course

The RIBA could best seek the right course by going back to the purposes which publication and mature discussion was supposed to serve. If it were remembered that a profession was for the application of specialised knowledge, then perhaps four requirements could be identified:

The consideration of newly-acquired knowledge;

the gathering together of the fruits of practical experience;

the discussion of the social, economic and industrial context of the architect's work; and

the study of matters affecting professional life and efficiency.

'In four words: science, experience, purpose and efficiency,' said Mr. Allen, 'all are part and parcel of the professional life and considered by these criteria, I do not think that the architect's or any other professional society's pattern of publication and discussion looks very satisfactory. Ours, I think, is now more balanced and sensitive than any I know, and these are real merits, but it fails seriously to gather-in experience or to advance learning, and is altogether too thin as a whole.' A point to which architects must seriously direct their attention was the advancement of learning; a great deal of original work was done by the profession, but we singularly failed to get it recorded. One step to deal with this had been taken by the Council's decision to initiate a new kind of information service. 'This should help,' said Mr. Allen, 'but it does not dispose of the main issue.'

A profession required a Headquarters mechanism, and this took one or other of two forms, the speaker continued. Either it combined the professional and learned functions, or it separated them. The RIBA was of the combined type, with a leaning towards professionalism, for it had departments dealing with education, practice, technical matters, public relations, publications, and professional research; and there was an unusually good library. The best example of the other type was in the medical world where there were several Royal Colleges as the learned societies and the British Medical Association as the professional organisation. This was probably the most powerful arrangement if one was prepared to pay for it, but he thought it was a pity to make more than a formal separation, for co-operation to give service was essential and probably happened best under one roof. Many professions seemed to be uncertain about their mechanisms, and he (Mr. Allen) thought that reflected uncertainty about their professional life.

'Our Council has made a number of a major reforms in the past few years and others are under discussions,' continued the speaker. 'Two or three of them are new in principle. Our unit for professional research is the most recent of our departments and it has few equivalents. Its job is to study our vital statistics, our own professional efficiency, the economic data relevant to our work and policies, and so on. It now provides quarterly information to the Government about new commissions coming to private architects, providing thus some indication of the work-load likely to fall upon the industry, a type of service which seems a good example of what a Government is entitled to expect from well-run professions, and which has earned us some thanks.

Architects' Income Too Low

'But this is the fringe of the potential work of the unit. In spite of the large amount of work now processed annually, the incomes of architects are well below what they should be if rewards are to be consonant with the skill, responsibility and diligence now exercised. Design may be too cheap; certainly, as all good professionals do, we expend much effort to reduce costs to the client, which in turn reduces our own rewards. This paradox is part of a tradition, though its quaint appeal is losing its grip. Architectural design is a type of activity in which costs are perhaps particularly difficult to control, for there is infinite opportunity and desire for refinement of detail. Stopping points are not so obvious as in some professions, and this may be a serious matter for us. At the same time, our own efficiency seems to vary greatly from office to office, and costs vary from one building type to another. Almost certainly there are better prospects of improved rewards from higher internal efficiency than in raising fees; but whether this is so or not, the whole matter can clearly benefit from the establishment of facts in place of the largesse of opinion on which we have to depend at present.

'Linked to this is a matter much discussed at the moment, which some call the idea of a two-tier profession. A third

of our office man-power is not architecturally qualified: that is, we employ one unqualified person for every two qualified. In some offices the so-called unqualified staff (actually often with other qualifications) outnumber the qualified, but in other offices the reverse is true and sometimes there are none at all. Many are employed as assistants, but some rank equal to or above qualified men. Some of our best designers argue that everybody in the office ought to be a qualified designer, and others equally good say this is an impracticable way to try to run things today.

An Age of Organisation

'This is not the place to debate the pros and cons, but there are three general observations worth making,' said Mr. Allen:

'First, there is no point in supposing that we can get on without these people; we would not have enough man-power, even if offices were willing to try, and they aren't; second, they appear to include many who are striving for an architectural qualification because it is the only status of value within reach even though not well suited to their abilities. This raises the question whether there is not some better training and status which could be devised for these people.

This leads, third, to the idea that this type of staff might be specifically trained to carry part of the technical burden of the modern office, both at junior and senior levels.

'In spite of remarks in the Press, I do not see anything alarming or inappropriate in considering such matters: quite the opposite, in fact: and there is a matter of principle involved, for clearly a profession has an obligation to see to the professional welfare of those who are its dependants. We work in an age of organisation, and these people must have a specific place in the pattern.'

Architects' Links with the Industry

'The word "Responsibility" comes into the discussion continuously,' Mr. Allen continued. 'We have observed that ours is now a social art and that our services must in some way be put within reach of all who need them. The obvious problem is the person who is not eligible for subsidised accommodation and can only spend a very limited amount on a house for himself. We had much debate some years ago about proposals to make standard plans available, and a service is now operating with the help of a commercial organisation. A different kind of problem is whether architects should be allowed to take directorships in the building industry. We have a prohibition on this, formulated by Soane in the early 1800s as part of his purification process. I think we ought to be clear that the valuable part of the principle lies only in preventing a person from offering services which may not be impartial; if he offers no services at all to the public, no harm is risked. I think we are alone among the professions in maintaining a prohibition of this kind, for I think others permit the taking of directorships if a person does not mix this with practice. Civil engineering firms are often run by civil engineers, and I think it very likely that the work is done better because of it, and that their Institute benefits from the industrial experience and the influence open to it. It seems to me no real issue at all, and that we ought to dispose of it at once.

'An entirely new interest for the profession and the Institute is our relationship with the makers of building products. Materials represent two-thirds of the cost of buildings, they are often badly designed, the industries themselves are sometimes badly organised to meet our needs, and the information they supply is often inadequate and poorly presented. All this puts a great drag upon the work of design offices, searching for good design at the right price, and trying to get the information necessary for a sound decision. Some individual members of the profession have made outstanding achievements in collaboration with producers since the war, and during the past five years the Institute has supported this with activity on a wide front. Almost always it is found that the industries themselves welcome the collaboration.

'I have one other specific point to make about the Institute. I remarked earlier on the curiosity that we seldom discuss individual designs, and we do not have any part of our committee structure devoted to building types although these are our central interest. It seems that this is due more to not finding the right mechanism than to a lack of desire, and I have often wondered whether something more successful could not be found. I think perhaps we have the germ of it now, for lately architects employed in industry have got together as a Group to discuss matters of common interest, and what I would like to suggest is that we should form several such groups dealing with different building types. I would then give them two principal functions, first, to organise the discussion of individual projects and second, to encourage and advise upon research concerning these building types.

'My final word about the Institute is a reminder that without it there would be architects but no profession, jungle-life instead of unity. There is often a temptation to measure its value in terms of what we get back from it as individuals, but this is the wrong yard-stick to apply. Of course part of its job is to give us certain kinds of service, but its vital functions are external—to present our collective arguments, to organise, to negotiate, to lead, to reach vital people at vital moments. It is therefore in all our interests to see that the Institute is strong in every necessary way; but none of us will be able to see that he has a specific personal return on this investment. And a footnote: the Committees of the Institute are the sources of its immediate authority and direction, and weakness at this point softens the whole structure. The leading personalities of a profession must be prepared to give time to this work if the Institute itself is to be powerful and quick in action.'

The Building Professions

Turning to consideration of the building professions, Mr. Allen said that while the design of a building in general was the responsibility of architects, the process frequently spread through several professions dealing separately with structural design, heating, ventilation and air-conditioning, lighting and electrical services, mechanical equipment and sanitary facilities. Associated with all those were the quantity surveyors, and in a related but somewhat special position stood landscape architects and the Town Planning Institute. Not all of the bodies concerned dealt solely with building, but it was at least a major interest for each. As organisations we had not yet begun seriously to look at our operation together, yet when one considered the fact that those organisations between them were responsible for the use made of more than £2,200m. value per annum of materials and labour, the fact that we did not collaborate closely was not only somewhat startling, but made us vulnerable to the charge of treating the public interest lightly.

'It seems right that we should raise these matters here at the RIBA. Much has been heard of "The Building Team" in the past few years—usually thought of as a combination of architect, builder and quantity surveyor—and we as architects have been pressed time and again to exercise our leadership more positively. What is implied by my argument here is that the building team includes the whole of the building professions. As such they are entitled to know in clear terms the needs, objectives and views of ourselves and the other participants and to voice directly to us their own problems and desires. Some single group must see to the smooth collaboration of the whole array of interests, professional and industrial, and the main duty is clearly ours.

'One group of problems relates to methods of working, for there are awkward consequences in our different views about fees, in what we undertake to do for them, and in our methods of organising our work. The overall result is to delay the preparation of schemes and make all our work more difficult and expensive than it should be. We ought to get at these matters in concert.

'A question of more speculative interest is this; are the engineering professions not too fragmented? From our point of view much of their work in buildings might be classed together as equipment engineering, and that is the way part of the engineering consulting practice is going. Does this have no germ of general significance? Would not some simplification of arrangements be to the general advantage? No doubt it is too early to make specific suggestions, but we should all keep sympathetically alert to possibilities in this direction.

Training in Design

'Less speculative but perhaps more intractable is a worry that we architects have about training in design. No factor at present so deeply disturbs sympathy and collaboration between us as our differences of outlook and values in respect

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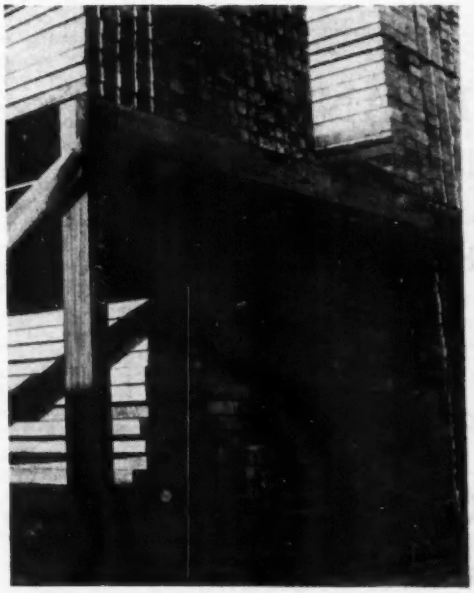

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of humane and aesthetic considerations. These are matters which we believe to be of fundamental importance in the application of knowledge to men's needs, and to our disappointment they have little or no place in the education of engineers. We believe this cannot be right and we plead for a change of approach to these matters.

'There are two other aspects of working together that can cause difficulty but ought not to. We must be able to work and speak together on matters of common public interest, and we must not cut across each other's proper individual interests. We have had to deal with examples of both lately and while we have had good or reasonable response in some quarters, it has been less satisfactory in others.

'For our attitudes to these matters we can all find the necessary guidance in what has already been said about the nature of professions. We spoke of the necessity for the training to throw up leading personalities with broad interests and balanced outlooks so that matters of public interest could be well considered. We noted also that a profession derives its authority for comment and action only from its specialised training and discussion; the converse of this is equally true and more specifically relevant, for it follows that a profession should not attempt to speak or act in fields for which its training has not prepared it. Such principles must be respected if the public interest is to be served.'

Building By-laws

He would wish to add a word on the subject of building by-laws, said Mr. Allen. Between, on the one hand, the building professions and, on the other, the Inspectorates who operate building by-laws, water by-laws, etc., relations were not on a suitable basis. Regulations of one kind or another were made by the State to protect the public from malpractices. Charters and Registration were granted to professions by the State as recognition that they had taken approved steps to protect the public from malpractices.

'The Inspectorates have behind them specific powers which give them positions of tactical strength. Unfortunately,' commented Mr. Allen, 'the view has become widespread that often they do not exercise this properly. There are well-documented criticisms of conservatism, of excessively "play-safe" attitudes, of arbitrary decisions for which evidence is lacking, and of a generally inconsiderate attitude towards professional people whom they have no right to hold in anything but good regard, and who have often apparently taken more care to keep abreast of modern advances than the Inspectorate. Whatever the position was at some time of history in the 19th century when the present organisation was set on its feet, the reality today is that the qualified professional does not need the help of by-laws to give proper service to the public, and his view is consequently moving towards the idea that his work should usually receive approval more or or less as a matter of form, and that the appropriate attitude for the Inspectorate should be one of helping with information relating to interpretation, local conditions, etc.'

In conclusion, Mr. Allen, after briefly summarising his main points, said: 'Behind all this lies my belief that we as a profession, and professions generally, and professions, science and industry together have entered a new period in the development of the scientific age in which the chief characteristic will be organisation for collective action, on behalf of the community.'

Book Review

'The Town and Country Planning Act'

THE TOWN AND COUNTRY PLANNING ACT, 1959. By T. J. Nardeccia, BSc, FRICS, FAI, and David Sullivan, MA, BCL, Barrister-at-law. Pp. xv, 480. (London; the Royal Institution of Chartered Surveyors.) Price 45s.

SINCE the war three efforts have been made to solve the problem of compensation and betterment in relation to planning and compulsory purchase. The first two—those of the Labour Government in 1947 and of the Conservatives in 1954—were not altogether popular, but they had certain merits. They ensured that public authorities—and ultimately, therefore, the citizen in his capacity of tax and ratepayer—were not required to pay compensation for land values artificially created through the operation of planning control. In many cases, however, the landowner who sells in the private market does obtain the benefit of a scarcity value resulting from the strict system of planning control which prevents building in green belts and on other land which would otherwise be available for development. As a result there have been two prices for land—that which can be obtained in the open market, and that which is paid by a public authority possessing powers of compulsory purchase.

The new Town and Country Planning Act remedies this injustice by returning to 'market value' as the basis of compensation for compulsory purchase. In these days of planning control, however, the market value of land or buildings often depends on whether planning permission is available for some profitable development. The new Act therefore lays down, by reference to the development plan and some other considerations, a number of assumptions as to planning permission which are to form the basis of valuation. The acquiring authority will, however, be able to offset any enhancement in the value of adjoining lands in the same ownership—the first time that Parliament has applied this principle as a general rule.

In addition, the new Act gives local authorities greater freedom to acquire land in advance of requirements, and it relaxes much of the control over local authority land transactions hitherto exercised by Whitehall. Land-owners and developers will be greatly affected by other important provisions in the new Act, e.g., the changes in the procedure for obtaining planning permission and the protection now given to the owner-occupiers of property rendered unsaleable by designation for compulsory purchase or by highway schemes.

Of the various works which have already appeared, this publication by the Royal Institution of Chartered Surveyors will undoubtedly be one of the most useful. It comprises some 180 pages of narrative explanation followed by an annotated text of the Act. The narrative is particularly good. It traces the historical development of the subject without which the new Act cannot be understood. Where (as is frequently the case) the Act refers to other statutes, their relevance and effect is fully explained. The problems which are likely to arise under the Act are discussed and the authors have not been afraid to express an opinion. As is customary with RICS publications, the authors make use of examples to illustrate their points, and this feature will no doubt be especially welcome.

This is an excellent book and well worth the price charged.

A. E. TELLING.

Shops and Shopping Centres

An Informal Symposium at the RIBA

'THE SHOP and its Environment' will be the subject of an informal symposium to be held at the RIBA, 66 Portland-place, W1, on Wednesday, March 23. The programme, which commences at 2 p.m., includes:

'The Pattern of Shops and Shopping Centres,' by Wilfred Burns, AMTPI, MEng, AMICE; 'The Car versus the Shopper,' by Walter Bor, ARIBA, AMTPI; 'Making the Shopping Centre Pay in Cash and Amenity,' by H. S. Howgrave-Graham, ARIBA, AMTPI; 'The Department Store,' by Denys Lasdun, MBE, FRIBA; 'The Chain Store,' by Ellis E. Somake, FRIBA, FRSA, DipArch(London); 'The Self-Service Store,' by Robert Stille, MC, ARIBA, AADipl; 'The Small Specialist Shop,' by Norman Westwood, FRIBA, AADipl (Hons); 'A Pictorial Review of Shops and Shopping Centres in a World Context,' by Bryan Westwood, FRIBA, AADipl.

Admission will be by ticket, price 10s., available from Mr. Anthony Williams, assistant secretary, RIBA.

Town Planning Institute

Minister on Future Responsibilities

THE ANNUAL dinner of the Town Planning Institute was held at the Trocadero, London, on March 2. The president, Professor J. S. Allen, FRIBA, BArch(L'pool), was in the chair. The Royal Charter recently granted to the Institute by HM The Queen added lustre to the occasion at which the principal guest was the Rt. Hon. Henry Brooke, MP, Minister of Housing and Local Government.

Proposing the toast of 'Her Majesty's Ministers' the PRESIDENT said that the duties of the Minister of Housing and Local Government were concerned with all aspects of planning from the siting of a power station in North Wales to holding an inquiry into the goings on in Piccadilly Circus. Professor Allen expressed concern about the small amount of capital being spent on building research compared with the vast sums invested by certain sections of industry.

Turning to prospects for the future he continued: 'Great things are expected from the Ministry very shortly. The next decade must see the expansion of our cities; there will be a war for accommodation and whether this country will be a fit or unfit place will depend on the way in which the problem is tackled. Increased prosperity and high standards are no good if our towns are not up to date and our countryside unfit to live in. Great changes will take place in urban renewal;' he said, 'the more conurbations grow the greater will be the need for open spaces to enjoy.'

Concluding on a note of optimism and hope he said he felt sure the Minister was aware that our attitude towards the future would make or break the country.

In response MR. HENRY BROOKE said, 'All that is necessary for evil to triumph is that good men do nothing. What is important is to bring what is right and what is wrong into perspective; this has been a duty of town planning for the last fifty years.' After paying tribute to the devoted work of Unwin, Abercrombie and Pepler the Minister referred to the achievements since the first Town and Country Planning Act in 1909. He spoke of the green belts, new towns, advertisement control, national parks, and an improvement in building and layout. 'Now,' he continued, 'we have to see what success we can achieve in inspiring the redevelopment of the uninviting, undistinguished central parts of towns and cities.'

Dealing with the preservation of the countryside from indiscriminate building Mr. Brooke made reference to the order he had recently made to bring very large agricultural buildings under control. 'Shortly,' he said, 'I hope to issue a circular and practical notes to set out in fresh terms the Government's policy on scatter of houses in the countryside.' Mr. Brooke said that he also proposed shortly to introduce a Caravans Bill in order that the Government should have a say in imposing proper sanitary conditions.

'I feel a deep concern over my responsibilities now that the first quinquennial review of development plans is on. As we get further in time from the regional advisory plans and they become outdated, we are spending a great deal of time on the study of the basic problems of population and industrial growth, closely linked with communications . . . rising prosperity should give us an unexampled opportunity.'

The toast of 'The Town Planning Institute' was proposed by SIR SYDNEY LITTLEWOOD, president of the Law Society. He paid tribute to the past and present leaders of the Institute and said that they did a far greater service to the country than even they themselves realised. He spoke of the necessity for more members in private practice and thought that an enlargement of the profession was desirable. Referring to publicity, Sir Sydney said: 'The Town Planning Institute should turn its attentions to public relations in order to make the public understand the meaning and significance of planning.'

The response was made by MR. R. NICHOLAS, CBE, senior vice-president, who reiterated the previous speaker's remarks on the serious lack of members in private practice.

The toast to the guests was felicitously proposed by MR. J. G. JEFFERSON, junior vice-president. DR. C. I. C. BOSANQUET, vice-chancellor of Durham University, made an eloquent and witty response. He said that town planners were the champions of all things difficult to reconcile; the preservers of the fine buildings of the past and the planners of the future.

House Design and Layout

Building Societies 'Playing Their Part'

'BUILDING SOCIETIES, as national institutions, are very properly subjected on occasion to criticism, sometimes unfavourable,' said MR. STANLEY C. RAMSEY, FRIBA, Deputy Chairman, speaking at the annual meeting on March 1 of the Abbey National Building Society. The main target of this criticism in past years appeared to have been the design of the houses on which the societies made advances.

'Not long ago,' continued Mr. Ramsey, 'one of the leading personalities in industrial design admonished us as follows: "The building societies would have their reward in giving a positive lead to better-designed houses and layout, because well-planned building estates of well-designed houses would in the long run offer the best security for their money."

'The precise meaning of the expression "a positive lead" is open to a number of interpretations; the overall implication that building societies are indifferent to the design of houses is surely unwarranted. For example, the Building Societies Association participates in the Central Panels Committee which represents the Councils for the Preservation of Rural England and Rural Wales, the Royal Institute of British Architects and the Institute of Builders. There are 44 panels fully working with the local authorities to advise them on house design and layout, and altogether about 600 architects are giving their time to this work. The Building Societies Association is also represented on the House Builders Registration Council, and our own chairman is chairman of the Council of the Town and Country Planning Association.

Design 'Never So Good'

'Speaking for our own Society, I can confidently state that never in my experience, extending over many years, have design and layout been so good. To say this is not to be complacent about present standards and achievements, nor disparaging about the prospects for innovations in the future. . . At the same time, it must be borne in mind that the community's needs in recent years have been predominantly for a large number of dwellings to make good the deficit of the war and immediate post-war period. Unaided by subsidy, it is the private house builder's task to suit his product to his market, and in particular to the resources of likely purchasers. The shortage of building land has of itself been a restricting factor on what builders have been able to achieve. In the context of these limitations the last decade has seen marked progress and enlightenment in the concepts of the British home.

'In this transition building societies have played their part, as their duty to members and potential members demands. Their problem I suggest, is to be aware of what is best in modern design without being drawn into the byways of eccentricity and passing fashion.'

Obituary

Major Edmund Howard, FRICS

WE REGRET to announce the death, on March 1, of Major Edmund Howard, FRICS, senior partner in the firm of Howard, Fairbairn and Partners, architects and surveyors. He was 78.

He served in the war of 1914-18 and in the Second World War was Controller of Building Construction, Ministry of Supply, from 1941 to 1943. He was chairman of the City of London Real Property Company, Ltd., which owns large properties in the City. These properties suffered severely during the war, and Major Howard devoted his energies to rebuilding. He was a director of the London County Freehold and Leasehold Properties Ltd.—Key Flats—and president of the Associated Owners of City Properties.

J. H. Haughan, FRIBA

MR. JOHN HOLLIDAY HAUGHAN, FRIBA, County Architect to Cumberland County Council, has died, aged 63.

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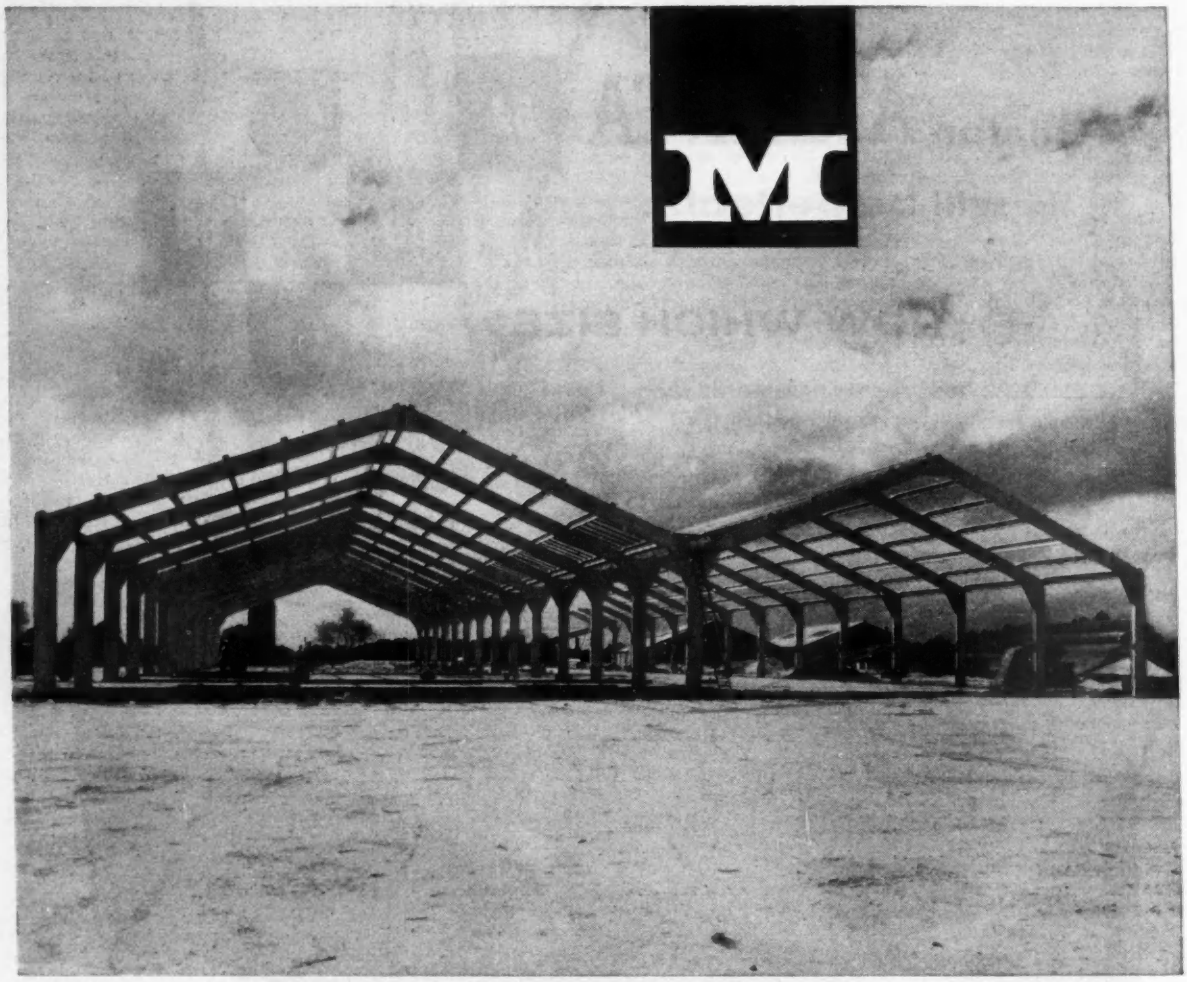

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Manchester Direct Labour Department

Call for Manager's Resignation Confirmed

MANCHESTER CITY COUNCIL on March 2 approved a report by the town hall committee (summarised in our last issue) after an investigation into the operation of the town hall works department, and a recommendation that the works manager, Mr. J. H. Marsh, should be asked to resign his appointment.

The council also approved an amendment, by 50 votes to 43, that the general and parliamentary committee should be asked to inquire further into, and report on, the administration of the city architect's department.

They rejected another amendment, by 76 votes to 21, that the chairman and deputy chairman of the town hall committee be authorised 'to make arrangements for the present holder of the office of city architect to relinquish that post.'

The report of the committee, after inquiring into allegations of 'serious irregularities' in the works department, had recommended that the city architect, Mr. L. C. Howitt, should be relieved of his responsibilities for the control of the department, and that the department should be placed under the control of an independent manager responsible to a separate committee on the council.

The city treasurer had reported that for a considerable time there had been inaccuracies in returns of expenditure on labour and materials required for costing, a lack of confidence in the accuracy of cost allocations, and a belief that buying and transport hiring policies of the department were not economical.

The committee found that foremen were concerned in the falsification of time sheets, but that there was no question of financial gain.

Selective Tendering

AMC's Reservations on Housing and Road Works

From a Correspondent

THE ASSOCIATION of Municipal Corporations is refusing to be nudged by either the Minister of Housing and Local Government or the Minister of Transport into recommending the use of selective tendering in relation to housing and road works. Recent correspondence between the AMC and the Ministries has led the association to recall its report in 1955 recommending the use of open tendering as a normal practice, while recognising that selective tendering was desirable for specialist work or in particular circumstances.

In a report on the position the AMC general purposes committee state: 'Inquiries which have very recently been made of a limited number of member corporations, show that the normal procedure is in fact for open competitive tendering to be used where the work to be done is of a specialist nature or, in some cases, where there is a degree of urgency. The kind of work for which selective tendering is used includes specialist civil engineering (such as tunnels and pumping stations), the erection of multi-storey flats and civic buildings and, in some places, schools and highway work.

'We reiterate,' the report continues, 'the view expressed in 1955 on this subject, and consider that, while the normal practice should be open competition tendering, the use of selective tendering is essentially a matter on which each local authority must exercise judgment. We are so informing the Ministries.'

Precast Concrete

New Documentary Film

THE FILM 'PRECAST CONCRETE,' screened in London last week before an invited audience which included the Minister of Works, Lord John Hope, rates a high place in the ranks of British documentaries. Produced by Concrete, Ltd. and shot on construction sites in many parts of the United Kingdom, this is nevertheless not an advertising film except in so far as it demonstrates new ways of using precast structural concrete to reduce construction costs and time, and to simplify work on site by all trades. As an illustration, one film sequence shows a single day's work on a Birmingham site when 150 tons of precast concrete were fixed in position by an 8-man team.

An excellently restrained commentary and background music accompany shots which cover not only a series of completed buildings but processes of manufacture and installation which give the film a remarkable sense of integrity. Film technicians learnt that some of the shots were made with a special zoom-type lens never before used on this type of film which enables a camera to take both normal and long-distance shots without using a trolley. The film (in 16 mm. Eastman colour) runs for 27 minutes.

Concrete, Ltd., and Mr. Edward Bush, director responsible for the film, and Mr. Edward Lloyd, producer, were warmly congratulated after the showing by the Minister who subsequently was present at a luncheon in the Constitutional Club at which Mr. K. M. Wood, managing director, was host.

Housing Manager to Retire

MR. VINCENT M. HUGHES, FAI, who for 21 years has been the City of Sheffield's first housing manager, retires in August. Mr. Hughes has specialised in municipal housing administration for 37 years, having previously held appointments as Housing Director to the County Borough of Bolton, Foundation and Housing Estates Manager of York and chief assistant in the City of Birmingham Estates Department. In August he will have concluded 50 years in the estates profession.

School Building Procedure

Ministry Establishes Cost Limits

ADMINISTRATIVE Memorandum No. 3/60, issued by the Ministry of Health, Curzon-st., W1, describes in detail the procedures associated with the consideration and approval of local education authority building proposals, and replaces Administrative Memorandum No. 548 (Revised) dated 24th March, 1959. The new memorandum promulgates two major alterations to existing procedures.

It was anticipated in Administrative Memorandum No. 548 that cost limits for expenditure on furniture and equipment for hostels and residential accommodation at teacher training colleges and further education establishments, and, wherever possible, for different kinds of teaching accommodation in teacher training colleges, would be established as soon as possible, and that general approval would then be given to all proposals which complied with the announced cost limits. These proposals are now implemented in paragraphs 47 and 48 of the new memorandum and the appendix.

As from April 1, school meals projects will be treated as part of each local education authority's allocation for minor works and paragraph 12 of the new memorandum explains the procedure to be followed. Paragraph 12(3), in particular, defines more clearly than heretofore the methods which will be used to calculate a limit of grant for school meals proposals.

ICWA

Future Arrangements

THE SEVENTY-EIGHTH anniversary dinner of the Institute of Clerks of Works of Great Britain Incorporated will be held on Saturday, April 9, at the Connaught Rooms, Great Queen-street, London, WC2, at 6.30 pm. The guest of honour will be Mr. A. G. Sheppard Fidler, MA, BArch, Vice-President RIBA, and hon. Fellow of the ICW. Tickets available to members from Mr. G. B. Grubb, 23 Potters-croft, Horsham, Sussex.

A new Merseyside Chapter of the Institute has just had its first meeting at Liverpool. The hon. secretary is Mr. D. L. Wood, 32 Southbourne-road, Wallasey, Cheshire.

The next examination of the Institute of Clerks of Works of Great Britain Incorporated will be held from May 24-28. The closing date for entries is April 20. Syllabus and entry forms can be obtained from the Secretary, Liverpool House, 15-17 Eldon-street, London, EC2.

A Building Firm Steps Out

The Case History of A. Head, Ltd.

5. *Brooker Goes Through the Mangle*

Albert Head, Ltd., which as a firm has been going through the growing pains of expansion from early beginnings to a concern employing 200 men, has called in the Building Advisory Service to help in the re-organisation. In the last instalment ('The Builder' of February 26) William Head's estimating department received attention; now it is the turn of the Accounts Department, and Brooker, the company secretary, has some nasty moments before discovering that new ways can save time as well as temper. Earlier instalments in this series (by Mr. Cecil A. Francis, head of BAS) will be found in 'The Builder' of January 15 and 29, and February 12 and 26

POSSIBLY THERE WAS EVEN MORE DRUDGERY in the accounts department of Albert Head, Limited, than one usually associates with builders' offices. Every invoice and stores issue note, with a note of the material, every man's name and his cost, every lorry and its charge, were entered in the cost book. The reason for this was, 'the directors like to go through it when they are making up their final accounts.' Undoubtedly this was as useful as the odd notes they carried around or filed. If it were taken away, they would be lost. Could they be given the information without its all being copied into a ledger? They could, simply by filing all basic data in job order! Cost ledgers would become mere summaries, but would be supported by detail which could be got, when necessary, at a moment's notice.

For the time being the financial accounts were not touched. The order and structure of financial accounts could only be dealt with economically and successfully at the start of the financial year. The associated clerical and accounting routines could, however, be put into operation.

Making a Start With Wages

Because of the imminence of a new 'tax year' it was decided to make a start on the existing wages system. Hitherto, there had been a small site time sheet which recorded men's names, daily hours and total hours. Expenses and other odd items were written in the margin. If a man were transferred to another site or job, the clerk had to search through the remainder of the sheets to calculate his total time. They had tried making two or three entries, one under each contract he had been working on, but thought that it took longer than the present way.

The site time sheet was re-designed to provide all the information required by the wages clerk, with additional columns for an analysis of wages *if required*. If a man were transferred to another site, the general foreman filled in and gave him an individual time sheet. For payment purposes only, he was omitted from both the site time sheets by a blue pencil mark in the gross pay column.

The individual time sheet, with its horizontal 'slices' for each day of the week, was turned sideways. A line now represented a job. The operative had slightly less writing to do and the sheet was self-analysing.

The only exceptions to these two time sheets were the machinists in the joinery shop. As they performed a multitude of jobs rarely lasting more than a couple of hours, they put in a daily return. It would have been nice to say they filled them in as they went along, but at least now they had only one day's time to spread over the jobs they had done. Hitherto it had been a major task on Saturday morning to remember what had happened during the past week!

The payroll could now be entered in a series of blocks; all men engaged all the week on contract 1, followed by contract 2, and so on. Men on individual time sheets were to be entered as the last block. Only this block would require analysing for cost purposes.

But what about the payroll itself? The familiar B & CE standard pay-sheet was being used. It was big and awkward; the small amount of information they put on it was lost in vast open spaces. Although not really necessary, they copied out the daily hours of each man, merely because the columns were there. The income tax cards had to be filled in, and full details of pay written on the wages envelopes. Had they heard of the 3-in-1 system? Yes, they had. Some one had once tried to sell one to Brooker, the company secretary. What had happened? He had said, 'why should we pay for tax cards when the government supply them free?'

After much patient discussion and experimenting the choice of available systems was reduced to two. Basically, both were alike, but machine 'A' (costing about £15) had a sheet of payslips ½ in. wide that had to be torn up before inserting in the pay packets. Machine 'B' (costing just over £50) had a pad of payslips 1½ in. wide, which were automatically ejected as each pay entry was completed. Although it was pointed out to Brooker that the machine would last at least 10 years and probably 20, so that the capital cost a year would be next to nothing, he stuck out for the lower priced 'A.' As a last resort he referred it to Albert Head. What transpired will not be known, but he came back with a red face, and said they had decided to have 'B.' The question of using the printed wage envelopes with only the man's name written on, was allowed to pass, when it was found that they had nearly three years' stock of envelopes. Apparently you got 1½ per cent. discount if you bought 50,000! When these have gone, self-sealing cellophane envelopes will come into operation.

When the wages operation has been completed, pencil sub-totals are inserted at the end of each contract, and the block of individual time sheets. The last block only is analysed to jobs. Where operatives have worked part-week on a contract, the amount is entered on the appropriate site time sheet. Jobbing work is analysed under the job number. To prove these figures, a posting slip is prepared. On the credit side is entered the make-up of total wages, i.e. gross pay, employers NI, HWP stamps, etc.; on the debit side—the various contracts, jobs, and nominal ledger accounts to be charged. From this slip all postings are made, and the item initialled or ticked.

Mrs. Robinson's Tap Washer

Although this operation is common to both contract and jobbing work, it was decided to have a slightly different form of cost account for jobbing. The reason for this was so typical that it bears repetition. Mrs. Robinson was on the telephone and wanted to know just when they were going to see about her tap. The Minor Works supervisor was out. Mabel, the telephone operator, was trying to cope. To whom had Mrs. Robinson given the order? Mrs. R. did not know, she had just rung up. When was it? About a fortnight ago. In order to pacify the customer Mabel promised to send someone as soon as possible. That done, Mabel inquired around the office, but nobody knew anything about Mrs. R.'s tap. They did know however that Mrs. R. was a friend of Mrs. Albert Head and something should be done.

Half an hour later Bert Smith, one of the plumbers, wandered into the office with a query, and was promptly despatched to Mrs. Robinson. On arrival he found it was merely a washer that required replacing. However Mrs. R. said that whilst he was there could he please clear the kitchen waste pipe, which was giving trouble. Having heard of the previous rumpus, Bert decided he would. Whilst at the garden end of the waste pipe he noticed one of the firm's ladders under the hedge, and Mrs. R. said it had been there since they mended her guttering some six months ago.

On his return to the yard, Bert reported the 'ladder business' to the transport manager, and the ladder was duly collected. At the end of the week, Bert's time-sheet just stated 'Mrs. R.—3½ hours,' and this found its way into the cost ledger. Another item, 'lorry ¼ hr.,' also found its way in.

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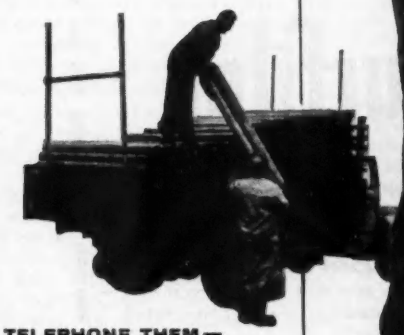

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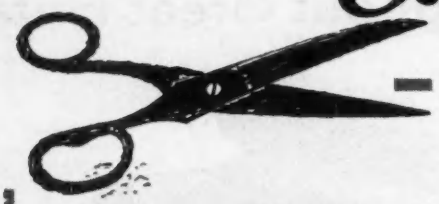

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Scene two opened a fortnight later when the M. W. Manager, going through his odd notes, slips of paper and envelope backs, found Mrs. R's original request and thought it was time something was done. Mrs. R. became priority No. 1 and Alf Jones was sent at the first possible moment. Alf was cautious and drew a couple of new taps from the stores before he went. On arrival, Mrs. R. had quite a bit to say about plumbers and their tools in general, and A. Head, Ltd., in particular. However, Alf had heard most of it before, and merely walked back to stores and returned the two taps. He also booked the hour's time he had spent.

The comedy ended some two months later when, getting out jobbing accounts, Brooker had quite a shock. Repairing a tap, two men, 4½ hours, lorry ¾ hour, but no material used. All the help he could get from the M. W. Manager, was that he had sent Alf Jones and that Bert must have booked his time to the wrong Mrs. Robinson. What it cost in clerical time to sort it out will never, fortunately, be known.

Mabel to the Rescue!

Things are different now. Mabel, the telephone operator, has a pad of forms. They are in duplicate and she fills in the top half of both copies, which are identical. Name and address of the customers, order number, date, etc., work to be carried out. The bottom half of the top copy is ruled for the cost account, i.e., columns for labour, material, transport, etc., and a summary with spaces for overhead expenses and profit margin. These go to the cost office daily and become pages in the loose-leaf cost ledger. The bottom copies go to the operatives via the M. W. Manager. The bottom half of this copy has two panels, (a) for additional work done, and (b) for any materials, plant or equipment left on site requiring collection. When the job is completed, the operative's copy is returned to the cost office, who now have a complete picture of the job. In addition, invoicing becomes a routine job, with only the odd query going outside the department for settlement.

But, to return to our costing, we now have a contract cost summary which merely states: W/ending 27/2/60 Wages £165 10s. 6d. If, at the end of the month, circumstances are such that some one wants a breakdown of this amount, there are four site time-sheets in the contract file, and they can be extended to give any desired figures — productive time, overtime, wet time, tool money, HWP, etc. In turn, backing up these figures, are gang time-sheets which show how each man spent his time. Only when a contract is 'in the red' is this information asked for, and the time hitherto spent copying detail is now available to deal with queries of this nature.

Materials

Albert Head, Ltd. have now got an official buyer which has considerably simplified routines. Other personnel, such as managers and general foremen, have authority only to purchase small items for cash, where this is more economical. Gone are the days when any jobbing operative could wander into the local builders' merchants, and get what he asked for—sometimes months after he had left the firm's employ. There is an official order for everything purchased, even if only confirmation of a telephoned order. This order is numbered, with the job number as a suffix, and approximately 95 per cent of the orders are priced.

It was soon found that the buyer neatly wrote out the order on scrap paper—or at least until he ran out of scrap—when he bought nice pads for the purpose—passed these to his typist who promptly typed the lot again. Now, he has a register with continuous stationery and he neatly writes out the order, as often as not, whilst he is telephoning. There are four copies—to supplier, accounts, whoever will receive the goods, and his own reference. Only the buyer's file is kept in serial order number. On the back of the 'accounts' and 'site' copies is a printed panel for recording purposes.

On arrival of the materials, the receiver, whether site or stores, enters on a 'Material Received Sheet' (MRS) the date of receipt, supplier and delivery note number. He also signs the delivery note and pins it to the MRS. There is no merit in copying the delivery note on to a MRS. Surely, general foremen have more important things to do! Only when there is no delivery note does he now enter details of the materials received.

Once a week these MRSs come into the office. It was found that Friday was a quieter day than Monday, so whoever takes wages to the site on Thursday, collects these sheets. This guarantees that they come in regularly and promptly.

The sheets are checked in the office to see that all the relevant DN's are there. The DN's are then marked off the back of their respective orders, which again, are in a contract file.

Invoices flow in, days or weeks later, are checked for extensions and, if correct, sorted into contract order. The clerk then checks against the front of the order for authorisation and price, and against the back for quantity. These invoices, if correct, are now in fact authorised for payment, and only in the event of any discrepancy are they referred to the buyer or in the case of telephone accounts, water rates etc. to any other official. These invoices are now filed for the sake of simplicity, in part 'A' of the contract file, until the end of the month. In part 'B' of the file will be invoices which have just arrived and are awaiting checking.

At an agreed date, when all invoices for the previous month are in, part 'B' of the file is empty and part 'A' complete. The invoices for each contract are sorted into the classifications required for costing, i.e., materials, plant hire, services, etc. When this is complete, all contract bundles are combined in contract order number, and all invoices serially numbered. With the aid of an add/lister, they are listed with sub-totals for each contract or section of a contract. The grand total of this list will provide a control total for agreement with the Purchase Day Book.

Again, these sub-totals are transferred to a posting sheet, the debit side of which would read:

Contract 1—Materials:	Inv. 1-27	365.2.6
Contract 1—Plant Hire:	Inv. 28-30	61.18.6
Contract 2—Materials:	Inv. 31-43	147.5.9
Contract 3—Materials:	Inv. 44-62	920.10.

and so on.

On the credit side would be the breakdown of the total of the purchase day book depending on the nominal ledger accounts to be debited. But the sheet must balance.

Having finished the analysis, the desk is cleared, all invoices are sorted into supplier order, and posted to the Purchase Day Book with a sub-total for each supplier. The sub-total only is posted to the supplier's ledger account.

Brooker Digs His Heels In!

This was the spot where Brooker decided to dig his heels in. The books which had been his pride and joy were in danger. First, his Purchase Day Book would never be up to date. Was it necessary to be up to date during the month? No, it was not essential, but there was not time to do the work involved after all the invoices were in. Second, they would not be able to compare supplier's statements with the bought ledger accounts. Why not? There were no details in the ledgers. If the total agreed with the statement did it matter? No. Could the statement be compared with the Purchase Day Book for detail, all invoices for one supplier being together? Possibly yes.

For a month the book-keeper logged the time spent on this work. The following month he tried the new way, and the results were:

	Original method	*New method*
No. of invoices	*605*	*629*
	Hours	*Hours*
Sort	—	.5
Enter P.D.B.	20	6.
Enter P.L.	28	4.
Add " A/C	10	—
Resort	—	.5
	58	11.

A great deal of the difference was in the reduction in the number of items posted to the Purchase Ledger, 605 to 102. In addition, as the Purchase Day Book was entered in strictly alphabetical order, he now went straight through his ledger instead of dodging backwards and forwards.

Ironically, Brooker was so 'sold' on the savings that he immediately wanted to sack the book-keeper and transfer the 11 hours' work on to the cost clerk. 'Only three hours a week' was his remark.

Stores Issues

Issues from the stores were dealt with in the same manner, but weekly. Copy issue notes went from the stores to the buyer, who priced them. They were extended on the comptometer, checked by serial order number to ensure that none was missing, listed and a total obtained—the amount to be credited to stores account. Next, the notes are

sorted into job order, listed with sub-totals for each job, and the grand totals of both lists agreed.

The Day of Judgment

Contract No. 17 was to be measured for interim payment purposes on Thursday, July 23, 1959. Accounts department did not get any warning until 9.30 a.m., when the surveyor put his head around the door, and said he was off to measure No. 17. The cost clerk said 'OK; would he please bring back with him any delivery notes they had, together with the number of men working on the site this week.'

What had the cost clerk to do? His cost account gave him (a) total wages to Saturday, July 18, (b) materials to June 30, (c) stores issues, plant and transport to July 18. To bring it up to date he had to: take the contents of part 'A' of the contract file—14 invoices, list them on the adding machine; repeat the process with part 'B'—3 invoices; add these two figures in pencil to the cost book 'material' total. He also went through his order file, and from the back of copy orders listed those items which had been delivered, but not invoiced. He had to extend these items, but as the order was priced, it created no difficulty. A visit to the stores and transport department gave him their current week's figures. The surveyor returned with three delivery notes, and the information that 18 men were working on the site. Delivery notes were marked off the orders, extended and added to the provisional figure, completing all material returns. Taking £2 per day as the earnings of the average operative gave £36 per day; 4 days' wages therefore equalled £144 and brought the labour costs up to the day of measurement.

The whole job, although being undertaken for the first time, took 2½ hours, and at 5.15 p.m. the cost clerk handed Albert Head a statement of the cost of their own work on Contract 17. Albert took it calmly until he asked when the contract was measured, and why the surveyor's valuation was not attached? Now that it has become routine, cost department waits for the surveyor's figures, and includes them in the pre-printed value/cost comparison.

P.S. Note from Albert Head: 'Mainly because now I have no routine work, I have cleared my, and most of Fred's, final accounts. The overdraft has gone and there is quite a bit in the bank. Thanks.'

(to be continued)

Prospects for the Building Industry

Mr. Woodbine Parish's Review

A GLIMPSE of the way the building industry is likely to develop in the next decade was given by MR. D. E. WOODBINE PARISH, President of the National Federation of Building Trades Employers, at a Press conference presided over by him at the Federation's headquarters, 82 New Cavendish-street, W1, on March 4.

Mr. Parish said that education, in its widest sense—the passing on of expert knowledge to our successors—lay at the root of all the industry's future prosperity. Questioned on his views on the proposed combined college of higher technology, to embrace all sides of the industry, Mr. Parish said that he certainly regarded it as a 'starter.' The concept was now accepted, and he thought that the college would have a quite specific part to play in the building industry in the near future. Moreover, the Ministry of Education were, he knew, keen to press on with the college's formation.

The form that the college would take, the President continued, was still a little nebulous, but he hoped that it would include some really advanced work on the human problems of the building industry. Asked if this included post-graduate work, Mr. Parish said that that was the direction in which they were moving.

Questioned on the Federation's proposals for reducing accidents in the industry the President called on the Director to reply. MR. PETER TRENCH said he had always held the view that it would take a very long time to effect a substantial improvement. Nevertheless they had reason to believe that 1958 might prove to be the peak year for accidents, and he was optimistic enough to believe that when the 1959 figures were published they would reveal an improvement.

The Federation, Mr. Trench continued, had now persuaded the Factory Inspectorate to break down the accident statistics into their various sections. From these figures it should be possible to make an analysis that would help them get to the cause of the various types of accident. The fact that this was now being done would give the industry a much better chance to cut out the dead wood by indicating which sections of the industry were most accident prone.

Another possibility that might be considered was the holding of a National Accident Prevention Week, to focus attention on the problem. The greatest practical step forward to date, he thought, was the setting up of the provincial accident prevention training centres.

Costs and Prices

A questioner wanted to know how the industry proposed to absorb the latest wages increase when at the same time it had been stated that competitive tendering had become unprofitable. Where was the margin? MR. PARISH said that the question revealed confusion as to the difference between costs and prices. The industry had got to keep costs steady by greater productivity, but this had nothing to do with prices. In reply to another question, the President said that present profit margins in the industry were very slender, if indeed they existed at all.

MR. TRENCH said that the NFBTE estimated that building prices fell by 2 per cent in 1959. The new wages proposals would add just under 4 per cent to labour costs and around 2 per cent to building costs, therefore the 2 per cent drop in prices was at the expense of profits. 'An unprofitable industry is an inefficient industry. It is not a happy thing that profits should fall by 2 per cent,' he declared.

Mr. Parish was then questioned on the 40-hour winter working week in civil engineering that had recently been conceded. How were the building and civil engineering industries going to get into phase on this?

THE PRESIDENT said that in building, so long as so much overtime was consistently being worked, the operatives' argument for a shorter working week was not an honest argument—it simply meant that they wanted more pay at overtime rates. He was not at all sure, he continued, that there was a strong case for making the working rules of civil engineering and building march hand in hand—there was not so much interchangeability between the two as was often imagined.

MR. TRENCH, in answer to a question, announced that the Working Party set up by the National Federation to inquire into land for housing had now submitted a report to the Minister of Housing and Local Government, whom they hoped to meet to discuss the problem personally later this month. The Working Party, he emphasised, had produced 'reasonable' proposals—they had not, for example, recommended the abolition of the green belts—but they had stated that the problem must be tackled on the short term to avoid a crisis in the near future and on the longer term to avoid a recurrence of the present difficulties.

Asked whether he thought the industry could undertake the building of 400,000 new houses annually, as some authorities had recommended as necessary, MR. PARISH said that he looked on the next 40 years as being a period of continued expansion. If the industry was going to be able to cope with the enormous need for urban renewal and expansion in other directions it had got to step up its output. He saw housing as a part of the whole problem of raising the product of the industry to cope with such a figure.

Appointment of Technical Officer

In order to play a more active part in the sorting and dissemination of technical information to its members the NFBTE has appointed Mr. E. Thompson, BSc, as Technical Officer of the Federation. Mr. Thompson has been at the Building Research Station for 14 years, the last five as Experimental Officer. He took up his duties at the NFBTE on March 1. In addition to the preparation of technical information Mr. Thompson will service the Federation's technical committees, and will lay the foundations of a National Federation technical service.

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'Cities—Living with the Motor Vehicle'

The Necessity for Systematic Urban Renewal

'WHILE A HANDFUL of the world's millionaires may like at week-ends to dust the Renoirs in their picture galleries, millions less affluent, but relatively prosperous and perhaps happier citizens, prefer to polish a well-made machine outside their own front door before setting off on a jaunt with their family.'

In his paper, 'Cities—Living with the Motor Vehicle,' presented on Thursday, February 18, at the Friends House, London, MR. CHRISTOPHER BRUNNER, vice-chairman, British Road Federation, stresses that the motor car has come to stay, that its numbers will continue to increase, and that the social and economic survival of our cities and central areas depends almost entirely upon acceptance of that fact.

'So far, no one has been able to envisage for Britain a mode of life which does not remain predominantly urban, and urban areas must therefore, willy nilly, be adapted to satisfy the basic needs of living. . . . The outstanding feature of so many of these urban centres is that, whatever the accuracy of the description geographically, they fail totally to serve as a fulcrum of a balanced community life. Overcrowded with vehicles by day, after 6 o'clock in the evening and at week-ends, they are almost entirely devoid of human activity. . . .'

Mr. Brunner points to the two alternative courses a city may take in coming to terms with what he describes as 'one of the greatest single instruments of social change during this century.'

Of the first—that of forbidding the use of motor vehicles, particularly cars, in the hope that this would render it unnecessary to make changes in the pre-motor age environment, he says: 'People's behaviour makes it quite clear that they want to have cars, because they buy them as soon as they can afford them. They also acquire them in order to use them.'

The second course, 'the only practicable one,' is to accept the motor vehicle, 'and from this must follow sooner or later the modification of the environment to permit motor vehicles to be used in large numbers. It may be doubted whether many civic or even national authorities fully realise the dilemma in which they are placed.'

Attracting Buyers

Some people come into cities to spend money in them; others come in to work. 'It is very much to any city's interest to take such steps as may be necessary to ensure that all potential buyers can get into what I shall term the spending area as easily as possible, can leave their cars conveniently and cheaply, and can get away home again with the minimum of trouble, loss of time, or friction with the authorities.

'Some decentralisation of industry is essential and, equally, there are areas which would doubtless benefit from a decentralisation of commerce. However, how much of its office employment does a city wish to see move elsewhere?'

Stressing that the city should realise that in both cases it is in competition with other possible locations for shops and offices Mr. Brunner adds: 'It is for the city itself to make up its mind whether it wishes to hasten its own disintegration and lapse into a relic of the past with no present economic function to perform, or to adapt itself to the times.'

'People are not going to put themselves to trouble and expense in order to maintain or enhance the prosperity of any particular city; rather will they switch their pattern of employment and of spending to conform with the way of life they prefer. A city is not in the position of a dictatorial authority which can determine without cost and effort to itself how it will treat the people on whose goodwill it depends; rather it is in the position of a seller of services seeking customers.

A Challenging Task

'What I wish to emphasise is the complete futility of any negative approach. A great and challenging task confronts us—no less than the renewal of our cities—and positive, energetic action is needed. There is no single solution. Each area calls for its own unique approach.'

Of the need for new highways to carry traffic into the cities and to enable it to circulate when it gets there Mr. Brunner says: 'Sometimes, it is alleged that urban motorways have not cured traffic congestion in the United States, and the conclusion is drawn that they are, therefore, not a cure. This is nonsense. If some urban motorways do not cure traffic congestion, the American approach, which is the correct one, is that this may prove only that in a particular city enough may not yet have been built.

'The vital point is, and this has been made often by the Royal Institute of British Architects, that urban motorways are essentially part of the whole problem of urban re-development.

'The danger will be that some people may come to think of traffic engineering as a "gimmick" which will serve as a substitute for building new urban motorways and for a comprehensive policy of urban renewal.

'We cannot go on discussing the problems of urban areas rather in the same way that the perennial difficulties of adolescence may be discussed—"It is all very tiresome but we must simply wait for the day when they will grow out of this stage."

'The ownership and use of motor vehicles, and especially cars, has created a world-wide crisis in the life of cities, where there is a choice between either allowing worsening congestion to aggravate still further the decline in the centres, or of accepting the motor vehicle and re-building the cities with urban motorways and parking facilities integrated into the schemes. The ownership of personal transport is already, and will become even more, a major factor in people's lives, and there is really no alternative but to recognise the need for a policy of systematic urban renewal.'

Employment Shifts to South-East

Surrey ask LCC for Conference of Planning Authorities

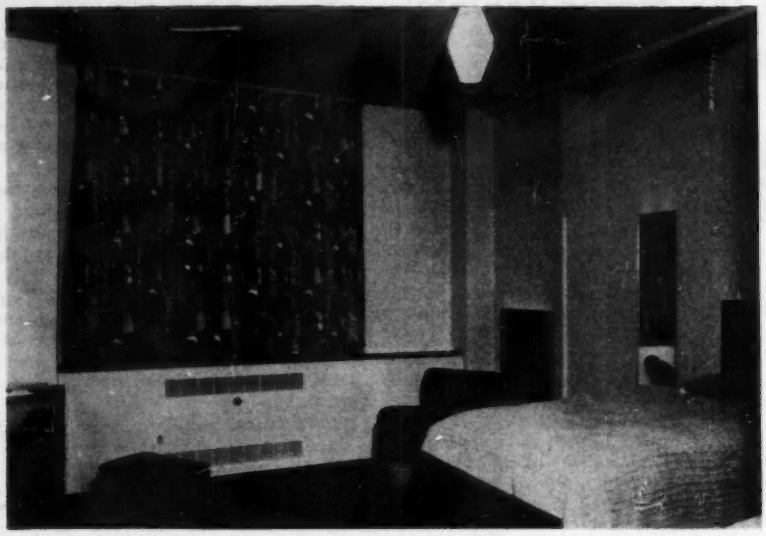
SOME CONCERN about the shift of employment to the South-East has been expressed by Surrey County Council's town planning committee who have asked the LCC to convene a conference of planning authorities in London and the Home Counties to consider its consequences.

In the five years 1953 to 1958 employment in London and the Home Counties increased by eight per cent, against 4.5 per cent for the whole country. In the same time rail travel to London in the peak hours increased by 91,000, and travel by road increased in similar proportions. The pressure of demand for housing in Surrey can be seen in the rapidly rising prices offered for land.

A report of the County Planning Officer (Mr. T. V. S. Durrant, MICE, MTPI), in which these facts are revealed, states that 44m. sq. ft. of new office space in the central London area was authorised between 1948 and 1958. In the five-year period 1953 to 1958 the total population of London and the Home Counties increased by 299,600 (2.4 per cent). The population of Metropolitan London fell by 1.3 per cent and that of the towns and country districts in the Green Belt ring rose by 13.1 per cent. In Surrey the civilian population increased in the five years by 60,000 (4.4 per cent). Of this 10,000 was in the Metropolitan area, 27,000 in the Green Belt ring and 23,000 beyond the Green Belt.

The Surrey Development Plan, based on the accepted principle that employment in London would not be allowed to increase, provides for an increase on 1949 figures of 170,000 in the total civilian population of the county. The actual increase from 1949 to 1958 was 82,000.

The report states that it is clear that the amount of new building which can still take place in Surrey is strictly limited if the character of the county and the Metropolitan Green Belt are to be saved. Only two courses are open: to restrict effectively the growth of employment; or in the light of the new employment potential, to re-assess the demand for residential development and the educational and other services that go with it, and to provide accordingly. In either case the problem is a regional one and Surrey has much to lose from failure to see it whole and in time.



Strand Palace Hotel Improvements

Architects:

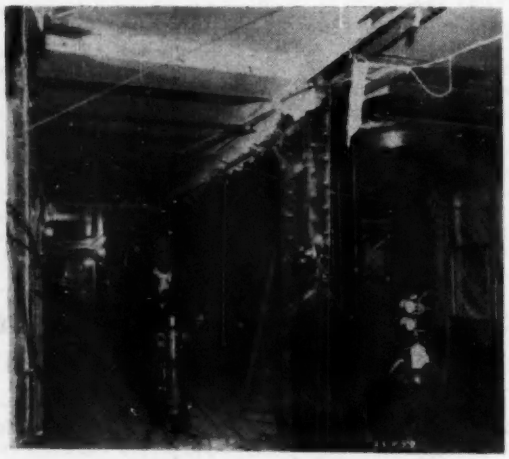
F. J. WILLS & SON, FRIBA

Assistant Architect:

J. M. FORSYTHE, ARIBA

General Contractors:

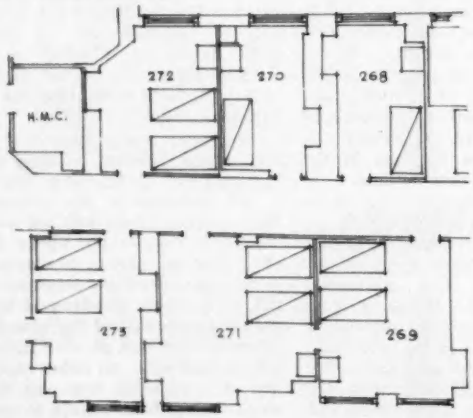
HOLLAND & HANNEN and CUBITTS (GREAT BRITAIN) LTD.



Top, a completed bedroom. Left, demolition work included all interior walls and services between the external walls

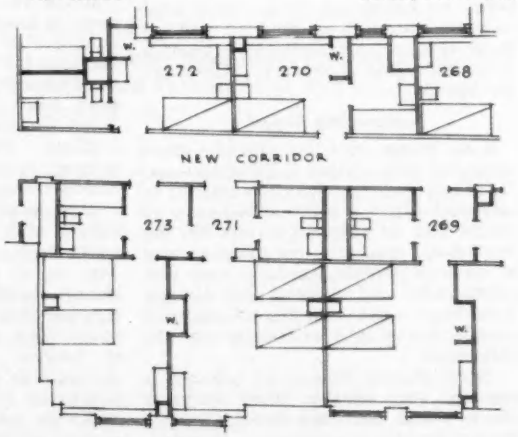
EXTENSIVE IMPROVEMENTS are being carried out on a section of the Strand Palace Hotel, to bring the accommodation up to present-day standards of comfort and amenity. A portion of the building has been gutted back to the carcass line, and where formerly 140 bedrooms existed the floors have been replanned to provide 111 bedrooms all of which are now 'en suite' with private bathrooms. The access corridor on each floor has been moved off centre so that single rooms occupy the narrow portion and double rooms the wide portion of each floor. A few of the double rooms are paired off with a communicating door between them, for the convenience of families.

SECOND FLOOR
PRIOR TO CONVERSION



SECOND FLOOR
NEW LAYOUT

SCALE, 1 in. = 16 ft.

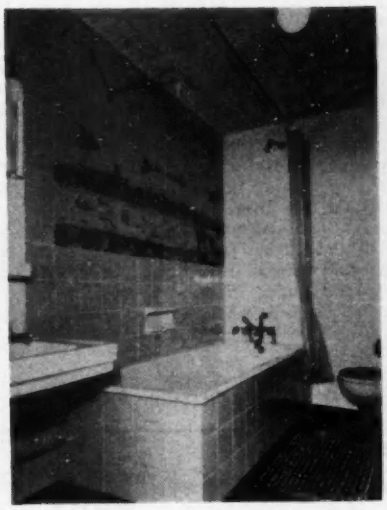


The whole contract was completed in 96 days, that is, at the rate of one bedroom per day, by means of pre-planning and time-study of all operations. A prototype scheme was carried out on 16 rooms under normal contracting methods, and this was followed by the contract for 111 rooms. Some two months were spent on planning and organising the contract, and all details including the schedule of decorations were completed before work commenced. Programme charts showing the phasing of labour, equipment and materials were kept by the architect and client for daily review. Sub-contractors reported at weekly progress meetings. All key personnel on site were provided with short-wave pocket radio receivers for instant communication.

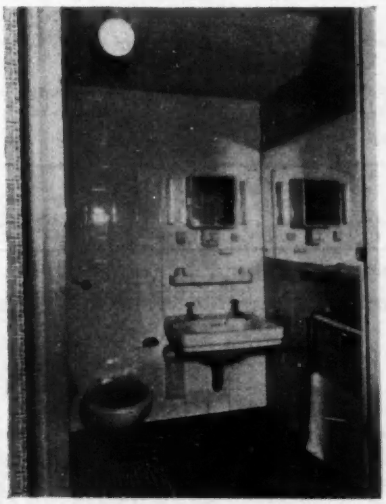
Other aids to rapid completion of the contract were: the use of Marley-Mix for bricklaying, rendering and screeding, one-pipe plumbing system in prefabricated sections, and electrical circuits prefabricated on the harness system in PVC sheathed pyrotenax. The cost of the conversion was £80,000.

Sub-Contractors and Suppliers:

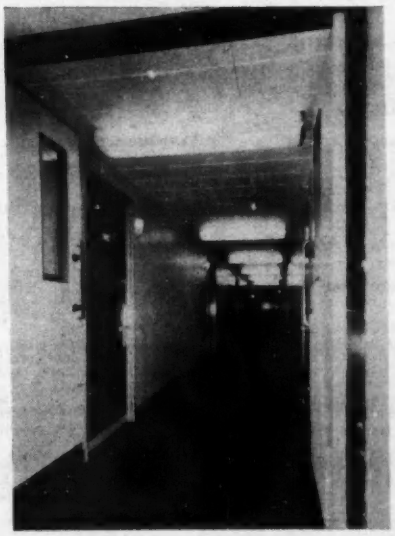
Joinery: J. Lyons & Co. Ltd.; *electrical:* J. Lyons & Co. Ltd.; *plumbing, heating and ventilation:* Engineering Service Installations Ltd.; *sanitary fittings:* Standard Range & Foundry Co. Ltd.; *scaffolding:* Scaffolding (Great Britain) Ltd.; *flooring (bathrooms):* Korkoid Decorative Floors; *wall tiling:* A. H. Herbert & Co. Ltd.; *supply of special wall tiles:* Carter & Co. London Ltd.; *glazing:* James Clark & Eaton Ltd.; *wallpaper and curtains:* (*curtains made up by* F. Gibbs) Arthur Sanderson & Sons Ltd.; *nylon carpet:* Alfred Morris Furnishings Ltd. (*carpet laid by* Climpson & Co.); *bedroom furniture:* Edmonton Panel Co. Ltd.; *bedspreads:* Eric Cowpe Ltd.; *blankets:* Wormalds & Walker Ltd.; *radio and television installation:* British Relay Wireless Ltd.; *door furniture and fittings:* Roanoid Ltd.; *bedroom heating (convectors):* Copperads Ltd.; *casing to convectors and all internal joinery:* J. Lyons's Joinery Department; *electrical wiring (Pyrotenax):* J. Lyons's Electrical Department; *dressing table and centre light fitting:* Rotaflex (Gt. Britain) Ltd.; *wall bed fittings:* Trade Metal Works; *light switch plates:* Roanoid Ltd.; *bed cabinet control panel:* Alpeton Garton Co. Ltd.; *silent electric switches:* Walsall Conduits Ltd.; *curtain track:* Thomas French & Sons Ltd.; *skirting:* Permatops Ltd.; *splashback and fittings:* Roanoid Ltd.; *electric multi-shaving socket* (230-110*v.*): Kentish Electrical & Engineering Co. Ltd.; *door fittings and shower curtain rail:* Roanoid Ltd.; *shower curtains:* Denbar Plastics Ltd.; *wall mirrors:* James Clark & Eaton Ltd.; *wall tiles:* Carter Tiles Ltd. (*tiles fixed by* A. H. Herbert & Co. Ltd.) *ceiling ties:* Armstrong Cork Co. Ltd.) (*plastic tiles fixed by* Anderson Construction Co.); *lino floor covering:* Korkoid Decorative Floors; *lavatory basins, water closets and towel rails:* Ideal Standard Co. Ltd.; *baths:* Standard Range & Foundry Co. Ltd.



Two views of a bathroom suite



A new access corridor



In Parliament

From Our Own Correspondent

Accommodation for MPs

THE MINISTER OF WORKS, LORD JOHN HOPE, has again been pressed to provide more accommodation at the House of Commons for MPs. He told Mr. Lipton on March 1 that he was considering various possibilities including that which his questioner had advocated, the erection of office accommodation in New Palace Yard.

MR. LIPTON recalled that the plan by Sir Charles Barry, ordered by the House to be printed on June 21, 1855, provided for additional buildings round New Palace Yard. Would they have to wait another century before anything was done? LORD JOHN HOPE said that it did not necessarily follow that the only way to get rid of the difficulties which confronted them lay in implementing the Barry Scheme. The Minister announced that he would be ready to make a statement during the discussion on accommodation which it was hoped might take place before Easter. The House would not be presented with a 'fait accompli' of any sort.

He also told Mr. C. Johnson that he was not in a position to say when the arcade on the east side of Westminster Hall would be rebuilt as part of the stone restoration programme of the Palace of Westminster. MR. JOHNSON asked the Minister to take the opportunity this would afford and build out over Star Court Chamber in a way which would provide a large additional room for MPs. LORD JOHN HOPE said the rebuilding of the arcade would certainly have to be done one day but it was not urgent at the moment.

Replying to MR. HAYMAN, who maintained that some parts of the Palace were death traps, THE MINISTER said his Department's Fire Inspectorate surveyed the whole of the building annually and the 1960 survey would be made shortly. He was not aware there were any gaps, for his officers looked carefully at the system the whole time.

MR. PEYTON.—'Some of us think a real good, healthy fire would be a very desirable thing, as the outcome might well be some improvement on the wretched and miserable amenities we have.'

LORD JOHN HOPE.—'I am not sure that Mr. Peyton's relation between cause and effect is entirely sound, and obviously I cannot make any remarks which might appear to be encouraging arson in the House.'

The Offices Bill

THE GOVERNMENT have gracefully accepted the rejection of their advice on the Offices Bill, and when the committee stage began on February 24, MR. DENNIS VOSPER, Under-Secretary, Home Office, indicated that they would now do what they could to make the Bill a workable proposition. Against Government advice the Bill, which seeks to provide minimum standards of conditions of employment for office workers, was given a second reading on December 11 ('The Builder,'

December 25). A money resolution was subsequently tabled to authorise increased payments to local authorities to meet the cost of enforcing the Bill.

Under the first clause, the Home Secretary may make regulations specifying standards as to structure, arrangement and operation to be applied in offices. After some amendments to bring the details of the clause more in line with comparable legislation, it has been accepted by the committee.

In his remarks MR. VOSPER said they would endeavour to make the Bill workable 'at least on a temporary basis,' and tackled to clarify this, he said that the Bill differed so much from other Acts dealing with places of work that he thought it would be desirable, given time—and it would need time—to replace it with a longer measure on the lines of present Acts. A Bill on the lines of the full Gowers Report and the Factories Act was something that only a Government could undertake. However, it was now their desire to see that the Offices Bill became as effective as possible. The Government intended to produce regulations unless this Bill was overtaken by a more comprehensive and substantive measure.

Architects and Engineers for New Hospitals

MR. BOYDEN asked the Minister of Health on February 29 how many posts for architects, and for engineers, respectively, remained unfilled by regional hospital boards.

MR. WALKER-SMITH.—'These establishments are not subject to specific control by my Department and consequently there is no routine collection of current figures. A special inquiry in 1958 showed that on April 1, 1958, there were 16 vacancies for architects against a total establishment of 152 and 42 vacancies for engineers against a total establishment of 128. I regret that no more recent figures are available.'

MR. BOYDEN.—'Is the Minister aware that there has been a great deterioration in the circumstances since then and that the hospital building programme requires many more architects and engineers? What does he propose to do to provide recruitment not only for the future but to make up the present existing deficiencies?'

MR. WALKER-SMITH.—'It may be that the figures have already deteriorated since 1958, the latest year for which I have them available. I attach importance to this question in the context of the increased hospital building programme. The precise rates of remuneration will be determined by arbitration, but of course the management side offered a substantial increase.'

More Hospital Building Projects

REGIONAL HOSPITAL BOARDS, as briefly reported in our last issue, have been asked by the Minister of Health, MR. DEREK WALKER-SMITH, to bring to completion the planning of a number of additional major hospital projects. Announcing this in a written answer in the House of Commons on February 29, the Minister said the projects included work on a number of new hospitals. All these projects (writes our Parliamentary Correspondent) will be financed from the Minister's central pool of capital expenditure for meeting the cost of schemes of £250,000 and upwards, and the overall cost of all the schemes listed is likely to be around £20m. This latest list of major schemes brings the total of those announced since 1955, when the expansion of the hospital building programme began to take shape, to nearly 180.

The Minister indicated that the projects included the first phase of a new teaching hospital in Liverpool, a new maternity hospital to replace the Birmingham Maternity Hospital, which is due to be evacuated when the new inner ring road is started, and a new building for the Tavistock Clinic. The site of the new Birmingham hospital might be in the vicinity of Queen Elizabeth's hospital but no decision has yet been taken. A site at Hampstead has been tentatively proposed to rehouse the Tavistock Clinic.

Full details of the projects issued by the Ministry of Health indicate the following proposals:

FURTHER PHASES AT EXISTING HOSPITALS

Hospital Authority	Place	Details of Scheme
South West Met. ...	*Crawley*	Phase II which will include wards.
South Western RHB	*Truro*	Second phase but details not yet decided ; first phase in advanced stage of planning.
North East Met. ...	*Harlow*	Phase IV to complete hospital with total of about 200 beds.
Leeds RHB	*Huddersfield*	Planning will now go ahead for completion of hospital.
Welsh RHB	*Oakwood Park, Conway*	Final phase which will provide further 150 beds, annexe for sick, recreation hall and work-workshops. The hospital will contain 450 beds when completed.

REDEVELOPMENT

Hospital Authority	Place	Details of Scheme
South Western RHB	*Gloucestershire Royal*	Hospital comprises buildings on separate sites. Board aims to centralise all services on site in Great Western-road. Board providing for rebuilding casualty, orthopaedic, out-patient departments at this site. Further project is for new ward block to replace front block of Southgate-street buildings.
Wessex RHB... ...	*Poole General*	Second phase of which details have still to be settled.
Birmingham RHB ...	*New Cross and Royal, Wolverhampton.*	First stage of development scheme. Accident and out-patient unit at the Royal ; obstetric unit at New Cross ; and radiotherapy unit at one or other of them.
East Anglian RHB...	*Norfolk and Norwich*...	Maternity department with probably 90–100 beds.
Liverpool RHB ...	*Chester City*	Maternity unit to be replaced and enlarged.
Liverpool RHB ...	*Walton*	Modern neurosurgical unit to serve Region ; will include over 100 beds, operating theatres, X-ray departments, etc.
Manchester RHB ...	*Ashton-under-Lyne General.*	New and enlarged maternity unit. This will release four wards mainly for general medical and surgery.
Manchester RHB ...	*Burnley General* ...	New and enlarged maternity department to replace unit at Bank Hall Maternity Hospital affected by subsidence. Exact number of beds to be fixed.
North West Met. ...	*Watford*	New and enlarged maternity department of about 90 beds, probably on site at Shrodell's Hospital.
Oxford RHB... ...	*Royal Berkshire, Reading.*	First phase of modernisation to include new ophthalmic unit, ward and boiler house.
Queen Charlottes' and Chelsea Hospitals.	*Queen Charlotte's* ...	When the hospital was built between the wars it did not include an out-patient department ; this is now to be provided.
SE Met. RHB ...	*Margate General* ...	Present small maternity units at Margate and Ramsgate to be absorbed in new and enlarged unit at this hospital.

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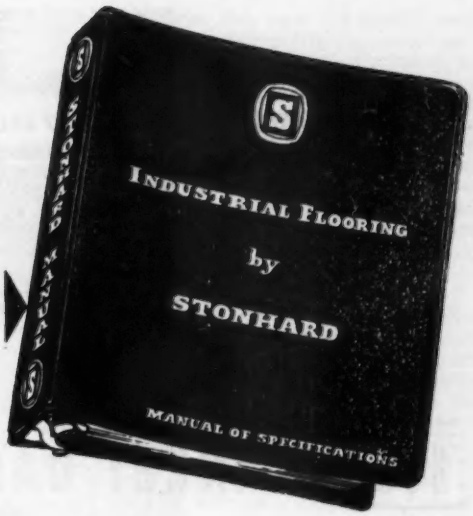

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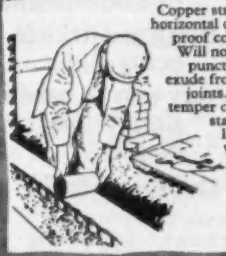
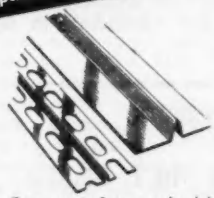


Copper strip for horizontal damp-proof courses. Will not tear, puncture or exude from the joints. Soft-temper coils of standard length, widths up to 36".

Expansion joint strip

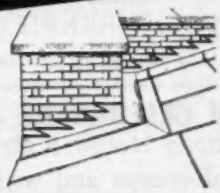


Copper strip for expansion joints, two patterns — BS 1878 and to I.C.I. design with punched holes to keep strip firm. Standard 10-12 ft. lengths x 5" wide.

Roofing Copper

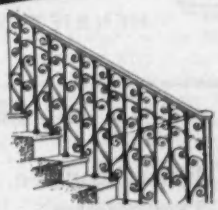
Coiled strip or sheet to BS 1569 for roof and wall cladding. Supplied in tempers appropriate to the roofing method.

Gutterings & flashings



Copper sheet or strip to BS 1569 for gutterings, flashings and weatherings. Also supplied to BS 1431 for rainwater goods. Dead soft or half-hard temper.

Extrusions



Copper alloy extrusions for balustrades, doors, window frames, stair nosings, shop fittings, and decorative trim.

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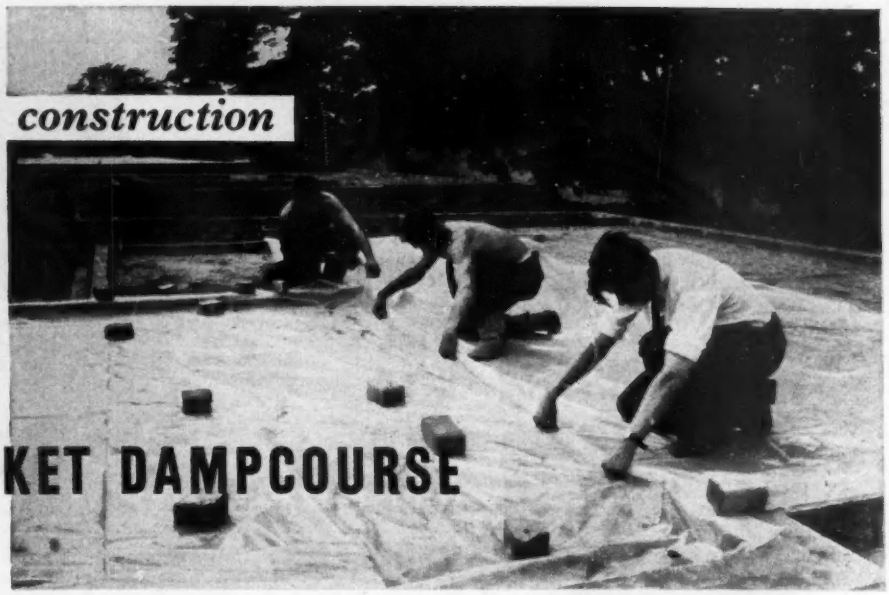

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BCL Blanket Dampcourse (0·005″ thick BCL polythene film) is the answer to the problems of moisture penetration into concrete house-rafts. It stops water rising through the raft into the house and, by preventing water-absorption by the concrete, removes the danger of the raft being damaged by frost or sulphate.

BCL Blanket Dampcourse is

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—**very easy to handle**—the film is light in weight and is simply laid over the fill before the concrete is placed ;

—**cheap**—material and labour-costs are very low.

Geo. Wimpey & Co. Ltd. make extensive use of BCL Blanket Dampcourse. This picture, taken with their kind permission, shows the film laid in position before the concrete is placed.

For further information, send today for a copy of the free illustrated booklet, "BCL Blanket Dampcourse", which incorporates a report on the tests carried out with this material by the Industrial Research Laboratories of the City of Birmingham Public Works Department.

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B10.

OTHER DEVELOPMENTS

Hospital Authority	Place	Details of Scheme
Leeds RHB ...	*Scalebor Park Mental Hospital, Burnley-in-Wharfedale.*	About 100 extra beds to be provided to help relieve pressure on mental hospitals in the area.
Manchester RHB ...	*Christie*	Enlargement of cancer and radiotherapy services, by provision of another 130 beds.
Newcastle RHB ...	*St. George's Mental Hospital, Morpeth.*	Modernising wards and sanitary services.
Newcastle RHB ...	*Newcastle General* ...	New boiler house and laundry.
North East Met. ...	*Prince of Wales's Hospital, Tottenham.*	Improving services by new operating theatre suite and diagnostic radiology department.
North East Met. ...	*Southend General* ...	Improved out-patient, casualty, physiotherapy and rehabilitation departments; some extra beds. Details still to be agreed.
Oxford RHB... ...	*St. John's Hospital, Stone.*	Modernisation of engineering services, including new boiler house.
Sheffield RHB ...	*Derby City*	Enlargement of surgical block with new operating theatres and ancillary departments. About 180 beds will probably be provided, compared with present 60.
South West Met. ...	*St. John's, Battersea*...	New ward block and out-patients department together with other ancillary departments.

Other Business

Coast Erosion at Beachy Head

SIR CHARLES TAYLOR asked the Minister of Housing and Local Government on February 16, whether he was aware of the extent of coast erosion at Beachy Head and the Seven Sisters; what expert advice he had taken in the matter; and what steps he proposed to take to prevent further damage to these national places of beauty.

MR. BROOKE wrote.—'This is a matter for the Eastbourne County Borough Council as coast protection authority. If they consider any action is necessary, they will no doubt submit proposals to me.'

Heating of Windsor Castle

MR. WYATT asked the Minister of Works on February 16, whether he would ensure, before allowing the Windsor Castle heating installations to be converted to oil, that every alternative heating method using coal or coke had been examined with the National Coal Board and the British Coke Industry Association.

MR. HARMAR NICHOLLS, Parliamentary Secretary.—'The scheme for an adequate central heating installation at Windsor Castle was designed some years ago and an oil-fired installation was decided upon after careful consideration of all the circumstances. It is now some months since this contract was let and the work is too advanced to consider changing the system. In the case of new schemes it is the current practice of my Department to consult the National Coal Board before deciding on the heating method.'

MR. WYATT asked why the Ministry of Works did not consult the Minister of Power before this arrangement was made. There were many modern coal and coke burning systems cheaper to use than oil and even though money may have been spent on this installation it was still possible to convert it to coal or coke without increased expenditure.

MR. NICHOLLS.—'We did compare like with like and the advisers at the Ministry of Works have detailed knowledge of the relative merits of all forms of heating. The structure of Windsor Castle, the availability of a storage place for coal and questions of amenity all show that an oil installation was the one that would be acceptable.'

Student Residential Accommodation

MR. BOYDEN asked the Chancellor of the Exchequer on February 17, what percentage of university building in the year ended July 31, 1959, was devoted to student accommodation, etc.

SIR EDWARD BOYLE, Financial Secretary, wrote.—'Of the major university building work to be financed by grants from the Exchequer and started in the calendar year 1959, just under 29 per cent in terms of value is to be devoted to student residential accommodation, student social and athletic activities and libraries—mostly to student residential accommodation and refectories.'

Reduction in Litter

MR. SORENSEN asked the Minister of Works on February 23 to what extent anti-litter legislation had had an effect in reducing the amount of litter deposited by the public in the parks and open spaces under his control.

LORD JOHN HOPE.—'Although no statistics are available I am glad to say that there has been a noticeable reduction in the amount of litter left on the ground.'

New Towns Policy

MR. PARKER asked the Minister of Housing and Local Government on February 23 whether he had considered the near completion of many of the new towns in the Home Counties, and whether he would now take steps to establish further new towns to meet housing needs in London and the Home Counties.

MR. BROOKE wrote in reply.—'There is still room for many thousands more houses in several of the new towns round London; and meanwhile other towns are expanding under the Town Development Act. I should like to see still better progress made with these town expansions. I have no proposals for starting further Government new towns for Greater London, but I understand that the London County Council may be putting forward a proposal to build a new town themselves.'

Planning and the Betting Bill

Somewhat surprisingly, the Standing Committee of the House of Commons considering the Betting and Gaming Bill found themselves debating a planning conundrum on February 23. The Bill proposes to legalise the establishment of betting offices and among the questions considered was whether these betting offices which will be set up all over the country will be 'shops' or 'offices' within the meaning of the Town and Country Planning (Use Classes) Order, 1950.

MR. DAVID RENTON, Joint Under Secretary, Home Office, said that his present and provisional view was that he did not think that it would require an amendment of the Use Classes Order in order to establish that a betting office was a 'shop' and not an 'office.' 'If clarification is needed,' he said, 'the right way to give it is to amend the Use Classes Order and not to legislate in the Bill.'

Ingredients of Paint

MR. FRANK ALLAUN asked the Minister of Labour on February 24, if following an industrial accident, details of which had been sent to him, he would take administrative action under the Factories Acts to ensure that cans containing paint indicated the ingredients, so as to avoid injury to the eyes or other parts of the body and to assist those giving medical treatment.

MR. EDWARD HEATH.—'I am making inquiries about the case sent to me by Mr. Allaun last week and I will write to him when I have given further consideration to his suggestion.' He added that he was aware of representations made by the National Society of Painters and Decorators.

Rebuilding Wellington Barracks

The EARL OF ONSLOW, Captain, Yeoman of the Guard, announced in the House of Lords on February 24 that it was proposed to rebuild Wellington Barracks after those in Chelsea and Hyde Park. When LORD CONESFORD asked if the fine façade of the barracks as seen from the park would be preserved, the EARL OF ONSLOW said the Secretary of State for War had that much in mind and in such matters he consulted the planning authorities and the Royal Fine Art Commission. No decision had yet been made because the rebuilding of Wellington Barracks could not be started for another four or five years. The Government recognised the importance of the appearance of these barracks in Birdcage Walk.

THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	5	5
Pit Sand	,,	1	3	8
Washed Sand	,,	1	6	9
¾ in. Shingle	,,	1	4	3
¾ in. Broken Brick	,,	1	0	9
Pan Breeze	,,	1	0	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	8	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

		£	s.	d.
Best British Portland Cement. Standard Specification delivered Charing Cross area.				
6-ton loads and upwards, site	per ton	5	10	0
1 to 6 tons, site	,,	6	2	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	,,	6	0	6
1 to 6 tons do. site	,,	6	12	6
Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.				
Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.				
Red, Buff or Khaki Colorcrete in 6-ton lots	,,	8	10	0
Other colours according to colour. In 4-ton lots from 308s. 0d. to 778s. 0d. per ton.				
White Portland Cement	,,	13	15	6
Under 1 ton	per cwt.		16	9
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	2	6
Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.				
Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards.)				
Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	,,	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	,,	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	,,	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	8	0

BRICKS

Full Loads.		£	s.	d.
First Hard Stocks	per 1,000	15	19	6
Second Hard Stocks	,,	14	3	6
Mild Stocks (Kiln Burnt)	,,	10	5	0
Mild Stocks	,,	10	0	0

All loaded free into lorry at the works. The question of haulage is still very dfficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C. district:				
Commons	,,	5	18	0
Cellular Commons	,,	5	18	0
Keyed do.	,,	6	0	0
Rustics	,,	7	10	0
Cellular Rustics	,,	7	10	0
Single Bullnose Commons	,,	7	12	6
Sandfaced	,,	8	10	0
Tuscans	,,	9	5	0
Saxons	,,	9	13	0
Golden Buffs	,,	10	0	0
Dapple Light Facings	,,	10	7	6
Heather Facings	,,	10	3	0
Best Blue Pressed Staffs (London stations)	,,	30	12	6
do. do. (London sites)	,,	30	14	0
do. Bullnose (London stations)	,,	31	11	6
do. do. (London sites)	,,	31	13	0
Blue Wire Cuts (London stations)	,,	27	5	0
do. do. (London sites)	,,	27	6	6
Midhurst Lime Bricks (London sites)	,,	10	15	6
Uxbridge Whites (London sites)	,,	10	19	0
Special Purpose Sandlime Bricks (London sites)	,,	8	12	0
Best Stourbridge Fire Bricks:				
2½ in. (London stations)	,,	30	12	3
2½ in. (London sites)	,,	31	1	0
3 in. (London stations)	per 1,000	36	14	9
3 in. (London sites)	,,	37	5	3
2¾ in. Moler Flue Bricks (London sites)	,,	29	0	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	,,	17	7	6
2½ in. Machine-made Multi Red Facings (London sites)	,,	17	12	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	,,	18	17	6
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	,,	18	17	6
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	,,	19	13	0
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	,,	19	13	0
Rubber Bricks for gauged arches (London sites)	,,	49	1	3
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	,,	14	14	0
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	,,	16	7	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	,,	64	0	0
Headers	,,	63	0	0
Quoins, Bullnose and 4½ in. Flats	,,	80	0	0
Double Stretchers	,,	85	0	0
Double Headers	,,	77	10	0
One side and two ends	,,	87	0	0
Two sides and one end	,,	89	10	0
Splays and Squints	,,	83	0	0

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d extra over White. All above prices plus 32½% for Best quality and plus 32½% less 10% for Second quality.

PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District.)

			£	s.	d.
Hollow Clay Partition Blocks (Keyed)					
Minimum lorry loads					
*2½ in.	140 yds.	per yd. sup.		4	5
Building Blocks (Keyed)					
*3 in. (6 cavity)	110 yds.	,,		5	5
*4 in. (6 cavity)	90 yds.	,,		6	10
6 in. (8¾ in. × 5¾ in.)	1,250 blocks	per 1,000	26	18	0

* Half blocks at no extra charge.

Clinker Concrete					
2 in.	120 yds.	per yd. sup.		3	9
2½ in.	100 yds.	,,		4	4
3 in.	90 yds.	,,		5	3
4 in.	65 yds.	,,		6	5
Cranham Terra Cotta					
2 in.		,,		6	9
2½ in.		,,		7	9
3 in. Load bearing quality		,,		8	9
4 in. do. do.		,,		10	9
Moler Partition Blocks					
2 in.	150 yds.	,,		10	6
2½ in.	120 yds.	,,		13	0
3 in.	100 yds.	,,		14	0
4 in.	90 yds.	,,		15	6
Lightweight Concrete Building and Partition blocks of Various Sources of Manufacture					
2 in.	100 yds.	per yd. sup.		5	4
2½ in.	80 yds.	,,		6	5
3 in.	65 yds.	,,		7	5
4 in.	50 yds.	,,		9	4
4½ in.	44 yds.	,,		10	2
6 in.	33 yds.	,,		13	5
Thermalite-Ytong Partition Blocks					
2½ in.	144 yds.	,,		7	0
Thermalite-Ytong Load-Bearing Insulating Blocks					
3 in.	120 yds.	per yd. sup.		8	5
4 in.	90 yds.	,,		11	0
5 in.	72 yds.	,,		13	9
6 in.	60 yds.	,,		16	6
8½ in.	42 yds.	,,	1	3	8

Floor Blocks and Filler Tiles

Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:					
3 in.		per 1,000	34	1	0
4 in.		,,	36	10	0
5 in.		,,	43	15	0
6 in.		,,	49	19	0
7 in.		,,	61	8	0
8 in.		,,	71	19	0
9 in.		,,	79	3	0
10 in.		,,	87	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:					
12 in. × 3 in. × ⅝ in.		,,	42	15	0
12 in. × 4 in. × ⅝ in.		,,	73	15	0
10 in. × 5 in. × ⅝ in.		,,	73	15	0

Seal and protect wood or cork floors with

ISOSEAL

DEEP SEAL

transparent non-slip

A durable, attractive, stain resistant, labour saving surface for wood and cork floors

specify

ISOSEAL

Penetrating Deep Seal

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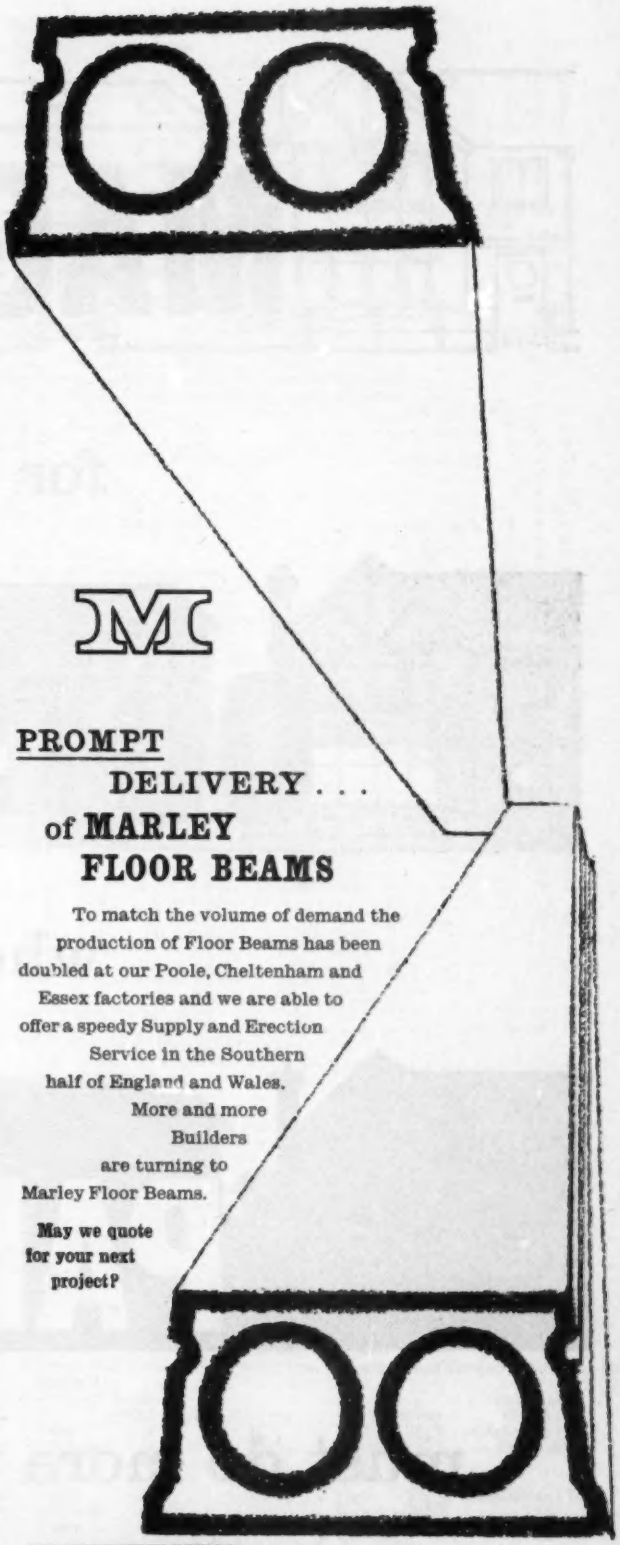
BRITISH BITUMEN EMULSIONS LTD

BRITISH BITUMEN EMULSIONS LTD.

Dundee Road, Trading Estate, Slough, Bucks:

Telephone : SLOUGH 21261/6

BRISTOL · CHESTER · GLASGOW



M

PROMPT DELIVERY . . . of MARLEY FLOOR BEAMS

To match the volume of demand the production of Floor Beams has been doubled at our Poole, Cheltenham and Essex factories and we are able to offer a speedy Supply and Erection Service in the Southern half of England and Wales. More and more Builders are turning to Marley Floor Beams.

May we quote for your next project?

MARLEY CONCRETE LTD. (Dept. 719)

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Shurdington, Nr. Cheltenham, Glos. *Shurdington 334/5*
Hatchpond Lane, Waterloo, Poole, Dorset *Broadstone 626*
London Showrooms: 251 Tottenham Court Road, W.1.

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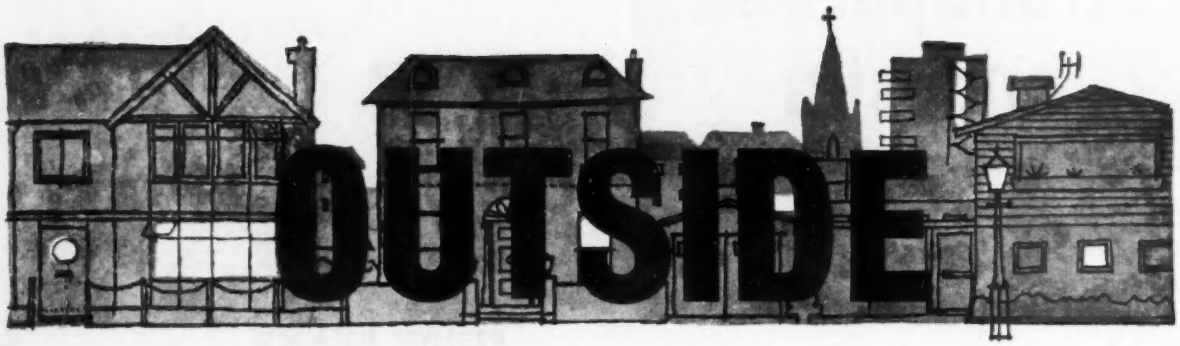
for the



where

must do more than decorate

ASSOCIATED LEAD MANUFACTURERS LIMITED

CLEMENTS HOUSE, 14 GRESHAM ST., LONDON, E.C.2 · CRESCENT HOUSE, NEWCASTLE · LEAD WORKS LANE, CHESTER

STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Revised Standard List (Nov., 1956) prices delivered London Area.
Delivered ex Merchants Wharf or Depot.

	Over 2 tons	Over 50 pieces Under 2 tons	Under 50 pieces Under 2 tons
Best Quality ...	−18⅔%	List price	+5%
BSS Best Quality...	+10% −18⅔%	+10% list price	+10% +5%
Tested Quality ...	+37½% −18⅔%	+37½% list price	+37½% +5%
BSS Tested Quality	+47½% −18⅔%	+47½% list price	+47½% +5%

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	11	18	6
4 in. do. do.	,,	15	19	6
6 in. do. do.	,,	32	19	0
9 in. do. do.	,,	62	9	0

DAMP COURSE

		£	s.	d.
Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	2
Asbestos base do. 7 lb. per yd. sup. do. do.	,,		5	2
Lead lined bitumen do. 9½ lb. per yd. sup. do. do.	,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

		£	s.	d.
Bath Stone				
Monks Park	per ft. cube		9	9
St. Aldhelm Box Ground	,,		11	0
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	4
Beer Stone. Delivered London area	,,		10	0
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	4
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stolled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do.	,,	3	1	2
12 in. × 3 in. Plain coping, twice throated	,,	2	7	6
12 in. × 3 in. Weathered and twice throated coping	,,	3	3	3
14 in. × 6 in. do. do. do.	,,	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	11	0
3 in. sawn two sides Slabs, random sizes ...	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	,,	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front	,,	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

	£	s.	d.
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district ...	64	4	1
Hand-made 10½ × 6½ tiles Berkshire district	15	18	3
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

	£	s.	d.
24 × 12	150	19	7
22 × 12	122	14	2
22 × 11	110	16	4
20 × 12	103	19	1
20 × 10	99	11	6
18 × 10	69	2	6
18 × 9	60	11	9
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

		Ex Wharf	per standard	£	s.	d.
Softwood						
Joinery quality		do.	,,	£115 to £140		
Carcassing quality		do.	,,	£94 — £98		
1 in. Tongued and Grooved Flooring		do.	,,	£110	0	0
Hardwood				£	s.	d.
Mahogany—	African S.E.	do.	per ft. cube	1	10	0
do.	Honduras S.E.	do.	,,	3	5	0
Oak	European S.E.	do.	,,	2	10	0
do.	Japanese S.E.	do.	,,	3	0	0
do.	English Logs sawn ...	do.	,,	2	0	0
Teak	8 in. average S.E. ...	do.	,,	3	17	6
Walnut	African Logs sawn ...	do.	,,	1	2	6

DOORS (In Lots I–II)

Delivered London area.

		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0

SUNDRIES

Delivered London area.

		£	s.	d.
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	,,		8	0
2 in. do. (52 yds. to 1 ton)	,,		9	9½
2½ in. do. (45 yds. to 1 ton)	,,		11	3
3 in. do. (39 yds. to 1 ton)	,,		12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
½ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
⅛ in. Hardboard do.	,,	1	17	6
3/16 in. do. do.	,,	2	4	6
1/16 in. Asbestos Flat Building Sheets	per yd. sup.		4	3½
⅛ in. do. do. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2½
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOISTS, ETC.

		£	s.	d.
Basis Joists— 6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in., plain cut to lengths delivered London area	per ton	47	15	0
Extra for sizes				
3 in. × 1½ in. 4 in. × 1⅔ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4⅔ in. × 1⅔ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in.	,,	1	5	0
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. } 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in.	,,		10	0
Steel angles average price	,,	48	15	0
Steel tees average price	,,	49	15	0
Fabricated work delivered London— R.S. Joists cut and fitted	,,	64	15	0
Compound girders	,,	69	5	0
Stanchions	,,	4	15	0
Compound stanchions	,,	79	5	0
In Roof Work—Trusses and Purlins	,,	69	0	0
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

FERRO-CONCRETE BARS

		£	s.	d.
Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock 1 in. diam., and upwards	per ton	49	10	0
¾ in. diam.	per ton extra	8	12	6
5/8 in. do.	,,	6	12	6
½ in. do.	,,	4	12	6
⅜ in. do.	,,	3	2	6
¼ in. do.	,,	1	10	0
5/16 in. and ⅛ in. diam.	,,		15	0

MILD STEEL TUBES

Tubes to BSS 1387—1957 and Fittings. *Revised* list prices and following discounts :

Galvanised Tube—	Under 1 ton	Over 1 ton	W.I. Fittings	Malleable Fittings
Light	−39%	−40⅔%	Light −26½%	Malleable List
Medium	−35%	−36⅔%	Heavy −22½%	−23%+40%
Heavy	−27½%	−29%		
Black—				
Light	−50%	−51½%	Light −32½%	Malleable List
Medium	−46%	−47½%	Heavy −28½%	−23%
Heavy	−38½%	−40%		

C.I. HALF-ROUND GUTTERS

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/–
3½ in.	4/4½	3/11	1/–
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/10
5 in.	6/11½	5/4	2/2

METALS—*continued*

C.I.O.G. Gutters

Per yd. in 6-ft. lengths:	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. Rain-Water Pipes

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/-
4 in.	12/9	8/9	13/1

L.C.C. Coated Soil Pipes

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 22½% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. Coated Drain Pipes

In 9-fts.:	cwt.	qt.	lb.	Per yd.	Bends	Branches
4 in.	1	1	17	35/3	23/9	42/-
6 in.	2	0	1	51/7	63/9	101/-

Asbestos Rain-Water Pipes and Fittings

All less 17½% discount.

		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths	per yd.	4/7	4/10½	5/11	7/10
Shoes	each	3/-	3/3	3/10	5/2
Single Branches	"	4/8	5/6	6/7	9/2
Bends, square or obtuse	"	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj.	"	3/7	4/8	5/2	7/3
do. 6 in do.	"	3/10	5/2	5/10	7/10

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	4/4	4/9½	5/9	6/10½
Drop ends	each	3/6	4/-	4/9	5/5
Stop ends	"	1/1	1/2	1/3	1/5
Angles	"	3/7	4/1	5/-	5/10
Nozzles	"	3/6	4/-	4/9	5/-
Union Clips	"	1/9	2/1	2/6	2/11

Asbestos Half-Round Gutters and Fittings

		3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends	each	2/6	3/-	3/3	3/7	5/2
Stop ends	"	1/-	1/1	1/2	1/3	1/5
Angles	"	2/10	3/3	3/7	3/10	5/2
Nozzles	"	2/6	3/-	3/3	3/7	5/2
Union Clips	"	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £	s.	d.
Iron:—Staffordshire Crown Merchant Quality	52	17	6
Mild Steel Bars	47	8	6
Mild Steel Hoops	49	0	0

	Ex Merchant's Stock per ton Two-ton lots £	s.	d.
Soft Sheets C.R. and C.A.—			
20 gauge	62	7	6
24 gauge	64	17	6
26 gauge	67	17	6
Galvanised Corrugated Sheets, 6-ft. to 9-ft. —			
20 gauge	70	18	0
24 gauge	74	8	0
26 gauge	79	13	0
Galvanised Flat Sheets C.R. and C.A.:			
20 gauge	72	8	0
24 gauge	75	18	0
26 gauge	81	3	0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£	s.	d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)	per lb.		2	11½
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	"		2	10½
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	"		2	10½
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)	"		2	10
Coiled strip for flashing, high purity, 22 SWG (12 in wide)	"		3	1
Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1	13	0
Corrugated sheet BS 1470 NS3 Industrial Profile 8 ft. × 31¾ in. × 20 SWG	"	1	18	8
Corrugated sheet BS 1470 NS3 Mansard Profile 8 ft. × 31¾ in. × 20 SWG	"	1	12	1
Extruded section BS 1476 E1C simple moulding	per lb.		2	9½
Extruded section BS 1476 E1C 1 in. diam. round	"		2	7
Extruded section BS 1476 HE10WP simple angle	"		3	0½
Extruded section BS 1476 HE10WP 1 in. diam. round	"		2	11½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG	"		4	5½
Tubing BS 1471 HT10WP 1½ in. O/D × 20 SWG	"		5	10

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per dozen	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron	87/-	128/-	—	—	—	—
Toilet bib cocks for iron	109/-	158/5	—	—	—	—
Screwdown stop cocks for iron	66/-	95/9	188/-	363/-	522/6	917/6
do. with two unions for lead	89/-	132/-	234/4	472/-	623/6	1,389/6
Double nut boiler screws	18/8	26/5	47/6	48/6	67/-	93/6
Heavy Croydon ball valves	77/-	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/-
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4 in.
Caps and Screws	33/-	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	64/10	81/-	129/6	221/6		
Lead S. trap do. do.	78/6	97/3	159/6	286/3		

Solder:			s.	d.
Plumbers'	1 cwt. lots	320/-	14 lb. lots per lb.	3	7
Tinmen's	" "	404/-	" " "	4	5
Blow pipe	" "	407/-	" " "	4	6

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 29⅝d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.		d.		d.
¼ in. × 19 gauge	15½	Total per lb.	45½	Approx. per ft.	12½
⅜ in. × 19 "	13¾	" "	43⅜	" "	17
1 in. × 18 "	12½	" "	41½	" "	26
1¼ in. × 18 "	11⅝	" "	41¼	" "	31¼
1½ in. × 18 "	11⅛	" "	41¼	" "	37½
2 in. × 17 "	13¼	" "	42⅞	" "	60

Small Quantity extras :—

10 cwts. to 5 cwts.	plus ½d. per lb.
5 cwts. to 2 cwts.	" 1d. "
2 cwts. to 1 cwt.	" 2d. "

	£	s.	d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	293	5	0

Zinc

		£	s.	d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards	per cwt.	7	15	3
" " 12 gauge (23 SWG), " " "	"	7	14	9
" " 14 gauge (21 SWG), " " "	"	7	13	6

Brass Tubes

Brass tubes, basic price, plus gauge and manufacturing extras	per lb.	2	0½	

LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

		£	s.	d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	112	15	0
" Water Pipe, in coils	"	115	0	0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. dia.	"	116	10	0
" " " over 4 in. dia.	"	118	10	0
" Gas or Untinned Compo pipe	"	116	10	0

5 cwt. lots and over less 6d. per cwt. off basic prices.

Extras over Basis for quantities under 5 cwt.:

3 cwt. and under 5 cwt.	per cwt.	4	0
1 cwt. do. 3 cwt.	"	6	0

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £63 0s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

		£	s.	d.
Coarse Pink in 1-ton loads and ov delivered on site	per ton	8	4	6
do. White do. do. do.	"	8	14	0
Sirapite Coarse BSS 1191 Class C do. do.	"	8	15	9
do. Fine do. do. do.	"	9	3	3
do. Browning BSS 1191 Class B do.	"	8	15	9
do. Board Finish do. do.	"	8	15	9
Blue Lias Lime, in 6-ton loads	"	6	14	6
Hydrated Lime (Grey), in 6-ton loads	"	5	10	0
do. (White) do.	"	6	0	0
Lump Lime (Grey) do.	"	5	7	0
do. (White) do.	"	5	14	6
White Keen's or Parian Cement, in 1-ton loads	"	11	19	3
Pink Keen's or Parian Cement, in 1-ton loads	"	11	14	0
Granite Chips, in 6-ton loads	"	2	5	3
Hair	per cwt.	4	17	6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.		2	3½
1,200 yds.	"		2	2½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"		2	9
1,200 yds.	"		2	9
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds, and over in one delivery. Delivered site	"		2	6½
1,200 yds.	"		2	5½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"		3	0
1,200 yds.	"		3	0

The Brandon Estate at Southwark, where FF Joints have been used to complete the plumbing installation for this 18-storey block of L.C.C. flats.

The FF *Joint*

-accepted by over 100 Local Authorities

The established development for all plumbing systems

Literature is available showing the FF Joint's many applications in all types of plumbing layouts for multi-storey flats and two-storey houses including the Single Stack System

The FF Joint is a Federated Foundries product.

Please write direct to the Technical Advisory Department at any of the following suppliers, and order through your normal trade channels:

Thomas Allan & Sons Ltd., Thornaby-on-Tees.
Grange-Cameron Iron Co. Ltd., Falkirk.
Cameron & Roberton Ltd., Kirkintilloch, Glasgow.
David King & Sons Ltd., Skipton, Yorks.
Walter Macfarlane & Co. Ltd., Glasgow, N.2.
Southern Foundries Ltd., Waddon, Croydon.

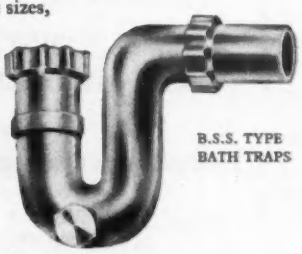
Water

– just how wonderful most people only realise when they turn on a tap and nothing happens! Thanks to modern plumbing we can take it for granted. But of course, as every plumber knows, there are some things that *can* safely be taken for granted – like the complete dependability of Kontite fittings.

Perfect joints at the turn of a spanner

There are over 22,000 types and sizes of KONTITE compression fittings, each designed to make plumbing easier, quicker, better and more economical. *Produced in gunmetal to resist dezincification,* they are made to fit all pipe sizes, up to 6″ bore.

Deliveries? *Unbeatable — most items by return.*
Catalogue? *With pleasure.*



B.S.S. TYPE BATH TRAPS

Plan right with Kontite

KAY & COMPANY (ENGINEERS) LTD · BOLTON · LANCS · TELEPHONE: BOLTON 3041
LONDON OFFICE: 36 VICTORIA STREET · SW1 · TEL: ABBEY 2144

A member of the ALENCO group of companies

PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper ...	per cwt.	1	7	6
Washable Distemper	,,	5	15	0
Gloss Paint ...	per gal.	2	16	0
Super Snowcem cement paint (in 1 cwt. drums) ...	per cwt.	4	0	0
LEAD PRODUCTS AND OILS				
Ground White Lead, in 1 cwt. kegs ...	per cwt.	8	7	6
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	12	6
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		19	2
Boiled Linseed Oil (5 gal.) do.	,,		20	0
SUNDRIES				
Turpentine substitute (5 gal.) drums extra ...	,,		5	4¾
do. do. (40 gal.) do.	,,		4	8¾
Solignum, Brown (5 gal. cans) Exterior	,,		8	8
Creosote (40 gal. barrels)	,,		2	3
Paste Powder (1 lb. packets)	per lb.		2	4
White Lining Paper	per piece		1	2

VARNISHES, etc.

Delivered London area.		£	s.	d.
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oal Pale Copal do. do.	,,	2	0	0
Hard Drying Oak for Inside	,,	2	5	0
Crystal Paper Varnish do.	,,	2	8	0
Eggshell Flat Varnish do.	,,	2	2	0
Finest Carriage Varnish ...	,,	2	7	0
Front Door Varnish	,,	2	4	0
Japan Gold Size	,,	1	12	0
Black Japan ...	,,	1	16	0
Brunswick Black	,,	1	12	0
Berlin Black ...	,,	1	10	0
Terebene	,,	1	12	0
Knotting (1 gal. bottles free)	,,	1	15	0
French and Brush Polish (do.)...	,,	1	15	0

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality— Cut Sizes ...	per ft. sup.		9½
24 oz. do. do. do. do.	,,		11½
26 oz. do. do. do. do.	,,	1	2½
32 oz. do. do. do. do.	,,	1	6½
¼ in. Rolled Plate	,,	1	2½
3/16 in. Rolled and Rough Cast	,,	1	5
½ in. do. do.	,,	1	5¾
¼ in. Figured Rolled and Cathedral, Standard patterns—			
White Group 1	per ft. sup.	1	2½
do. Group 2	,,	1	8½
do. Standard Tints	per ft. sup.	2	1½
do. Special Tints ...	,,	7	3
¼ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	,,	1	7½
¼ in. Wired Cast	,,	1	9½
½ in. Georgian Wired Cast	,,	1	9½
Hollow Glass Blocks—			
P.B.2 Cross reeded 5¾ × 5¾ × 3⅞ in.	each	3	6
P.B.3 Broad reeded 7¾ × 7¾ × 3⅞ in.	,,	5	4
P.B.32 Cross reeded 7¾ × 7¾ × 3⅞ in.	,,	5	4
P.B.4 Prismatic 7¾ × 7¾ × 3⅞ in.	,,	6	0
P.B.5 Flemish 7¾ × 7¾ × 3⅞ in.	,,	5	4
P.B.6 Boomerang 7¾ × 7¾ × 3⅞ in.	,,	6	0
Half Size Blocks—			
P.B.32 Cross reeded 7¾ × 3¾ × 3⅞ in.	,,	4	6
Radiused Corner Blocks to match up with—			
P.B.2 Cross reeded ...	,,	7	6
P.B.3 Broad reeded...	,,	9	0
P.B.32 Cross reeded ...	,,	9	0
P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price.			
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	7
,, ,, ,, 5 ft. sup.	,,	5	7
,, ,, ,, 45 ft. sup.	,,	6	9
,, ,, ,, 100 ft. sup.	,,	7	4
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways	,,	10	9
Not exceeding 180 ft. sup. or do.	,,	14	3

Plates exceeding 180 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.
Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6¾
24 oz. ,, ,,	2,000		8¾
26 oz. ,, ,,	2,000		11
32 oz. ,, ,,	2,000	1	2½
¼ in. Rolled Plate	1,000		10¾
¼ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		10¾
do. Group 2	1,000	1	2
¼ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	2
3/16 in. Rolled Plate or Rough Cast	2,000	1	1
½ in. do. do.	2,000	1	1½
¼ in. Wired Cast, Hexagonal	2,000	1	4½
½ in. Georgian Wired Cast	2,000	1	4½

THE BUILDER RATES OF WAGES

AS FROM OCTOBER 5, 1959. **(Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)**

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification	A	A1
Craftsmen	4/9	4/8½
Labourers	4/2½	4/2

Town	*Grade*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A1
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A
Amersham	A
Ammanford	A
Andover	A1
Anglesey, Isle of	A
Ardingly	A1
Arundel	A1
Ascot	A1
Ashbourne RD	A1
Ashbourne UD	A1
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A1
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A
Atherstone RD	A
Attleborough	A1
Axminster	A1
Aylesbury	A1
Aylsham	A1
Bagshot	A1
Bakewell UD	A1
Banbury	A1
Bangor	A
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A1
Barrow-in-Furness	A
Barrow-upon-Soar RD (part Thrussington)	A1
Barry	A
Basford RD (ex. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A1
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A1
Bideford	A1
Biggleswade	A1
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A1
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A1
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A1
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A1
Bognor Regis	A1
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A1
Bracknell	A1
Bradford CB	A
Bradford-on-Avon	A1
Braintree	A1
Brandon & Byshottles UD	A
Brecon, Borough of	A1
Breconshire, County of	‡A1
Brent Knoll	A1
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A
Bridgnorth MB	A
Bridgnorth RD	A1
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A1
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A1
Buckingham	A1
Buckley	A
Bungay	A1
Burnham-on-Crouch	A1
Burnham-on-Sea	A1
Burnley	A
Burton-on-Trent CB	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A
Caernarvonshire, Cnty. of ‡	A
Calder Valley	A
Camberley District	A1
Cambridge	A
Cannock UD	A
Canterbury	A1
Cardiff	A
Cardiganshire, Cnty. of	‡A1
Carlisle	A

CURRENT RATES OF WAGES—Continued

Town	Grade
Carlton UD	A
Carmarthen—Borough of	A
Carmarthenshire, Cnty. of	A
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A1
Charmy Down	A
Chatham District	A
Chatteris	A1
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A1
Chipping Norton	A1
Chipping Sodbury	A1
Chippenham (inc. Chippenham Within and Hardenhuish)	A1
Chorley	A
Cirencester	A1
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A
Congleton	A
Consett UD	A
Conway	A
Corby UD	A
Cornwall, County of	‡A1
Corsham District	A
Coventry CB	A
Cranbrook	A1
Cranleigh	A1
Cranwell Aerodrome Site	A
Crawley	A
Crewe	A
Crewkerne	A1
Cromer	A1
Crook and Willington UD	A
Crowborough	A1
Cuckfield	A1
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A1
Darwen	A
Daventry MB	A
Deal	A1
Denbigh Town	A
Derby CB	A
Devizes	A1
Devon, County of	‡A1
Dewsbury CB	A
Didcot	A1
Diss	A1
Doncaster CB	A
Dorchester	A1
Dorking	A
Dorset, County of	A1
Dover	A1
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A1
East Kesteven RD	A1
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A1
Ely	A1
Epping	A
Evesham MB	A1
Exeter	A
Exmouth	A1
Fakenham	A1
Falmouth	A1
Fareham	A
Faversham	A1
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A1
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A1
Gillingham (Kent)	A
Glastonbury & Street	A1
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A1
Godalming	A1
Goole, MB	A
Goole RD	A
Gosport	A
Grantham MB	A
Gravesend	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A1
Guildford District	A1
Halesowen MB	A
Halifax CB	A
Halstead	A1
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A1
Harwich	A
Haslemere	A1
Hastings	A1
Hatfield (Herts)	A
Havant	A
Haywards Heath	A1
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A1
Hereford	A1
Herefordshire, Cnty. of	‡A1
Herne Bay	A1
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A1
Horncastle UD	A1
Horsham	A1
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A1
Huntington (Staffs)	A
Ilfracombe	A1
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A1
Isle of Thanet	A1
Isle of Wight	A1
Jarrow B.	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A1
Leominster	A1
Letchworth	A
Lewes	A1
Lichfield MB	A
Lincoln CB	A
Liskeard	A1
Littlehampton	A1
Liverpool	*
Llandudno	A
Llanelly (inc. Llanelly RD)	A
Llanfairechan	A
Llangollen	A
London	*
Long Eaton	A
Looe	A1
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A1
Ludlow MB	A1
Ludlow RD	A1
Luton	A
Lyme Regis	A1
Lyneham (Devon)	A1
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A
Malvern UD	A
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A1
Margate	A1
Market Harborough RD.	A1
Market Harborough UD.	A
Market Rasen UD	A1
Martock	A1
Maryport	A
Matlock UD	A
Melksham	A1
Melton Mowbray UD	A
Merionethshire	A
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A1
Milford Haven UD	A1
Minehead	A1
Monmouth—Borough of.	A
Monmouthshire	A
Morecambe	A
Moreton Valence	A1
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A1
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A1
Newcastle-upon-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A1
Newquay	A1
Newton Abbott	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A1
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A1
Oakham UD	A1
Okehampton	A1
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A
Oundle UD	A1
Oxford	A
Oxted	A1
Padstow	A1
Paignton	A1
Par	A1
Pembrokeshire	A
Penmaenmawr	A
Penrith UD	A
Penzance	A1
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A1
Pickering	A
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A1
Pudsey MB	A
Pulborough	A1
Radnorshire, County of	‡A1
Ramsgate	A1
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks.)	A
Ripon MB	A
Rochdale	A
Rochester	A
Ross-on-Wye	A1
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A1
St. Albans	A
St. Austell	A1
St. Helens	A
St. Neots	A1
Salisbury City	A1
Salisbury Plain	A1
Sandy	A1
Sawbridgeworth	A
Saxmundham	A1
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A1
Selby UD	A
Sevenoaks	A
Shaftesbury	A1
Sheerness	A1
Sheffield MB	A
Shepton Mallet	A1
Sherborne	A1
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A1
Skegness UD	A1
Skipton UD	A
Sleaford UD	A
Slough, Windsor & Eton District	A
Smethwick CB	†A
Smettisham	A1
Solihull B	A
Somerset, County of	‡A1
Southampton & Eastleigh	A
Southend-on-Sea District.	A
Southport	A
South Shields CB	A
Southwold	A1
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stourport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A1
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A1
Tavistock	A1
Tenterden	A1
Teignmouth	A1
Tewkesbury	A1
Thames Haven	A
Thetford	A1
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC (including Tilbury, Grays and the area north to Billericay)	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A1
Trowbridge	A1
Truro	A1
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppington (Salop)	A1
Uttoxeter RD	A1
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Walsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A1
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A1
Wells (Norfolk)	A1
Wells (Somerset)	A1
Welwyn	A
Welwyn Garden City	A
West Bromwich CB	A
Westbury	A1
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland	A
Weston-super-Mare	A1
Weybridge	A
Weymouth (incl. Portland Bill, excl. Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable & District	A1
Wickford	A
Widnes	A
Wigan	A
Wigton	A
Wilmslow	A
Wiltshire, County of	‡A1
Wimborne	A1
Wincanton	A1
Winchester	A1
Windermere	A
Wisbech	A1
Witham	A1
Withernsea UD	A
Woking	A1
Wokingham	A1
Wolverhampton CB	A
Wolverton District	A1
Woodbridge	A1
Woodhall Spa UD	A1
Woodstock	A1
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A1
Wrexham (inc. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A1
Yate	A1
Yeovil Borough	A1
York CB	A
Ystalyfera	A

* For Birkenhead, Liverpool and London the rates are :—Craftsmen, 4s. 10½d. ; Labourers, 4s. 4d. In the case of London the rate beyond the 12-mile radius is : Craftsmen, 4s. 10d. ; Labourers, 4s. 3½d. † Plus 4d. per working day. ‡ This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops receive 2d. per day ; when employed on other building industry work, 4d. per day.

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 3s. 10½d. per hour. Women engaged on work other than craft processes, 3s. 6½d. per hour.

For Building Trade Wages in Scotland, see page 530

Finishing in style

As specialists in painting, plastering and cement glaze the HAT group of companies is earning an enviable reputation for style and speed. When you give the job to us it is done well—and within the specified time!

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PAINTING, PLASTERING & CEMENT GLAZE WORK

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The Hartel & Telling Group now comprises

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PAINTING:
P. J. Hartel (London) Ltd.,
1 Montague St., London, W.C.1.

CEMENT GLAZE
Robbs Cement Enamel Finishes Ltd.,
1 Montague St., London, W.C.1.

BATH AND SWINDON

PLASTERING:
A. C. V. Telling (Bath & Wilts) Ltd.,
13 New Bond Street, Bath, Som.
also at 30 Marlborough Road, Swindon.

BRISTOL

PLASTERING:
A. C. V. Telling (Bristol) Ltd.,
3-5 St. Pauls Road, Bristol, 8.

CARDIFF & SWANSEA

PLASTERING:
A. C. V. Telling (Cardiff) Ltd.,
The Chambers,
St. Mary Street, Cardiff,
also at 26 Castle Street, Swansea.

EXETER AND PLYMOUTH

PLASTERING:
A. C. V. Telling (Devon) Ltd.,
8 Baring Crescent, Exeter,
also at Royal Buildings,
St. Andrews Cross, Plymouth.

PAINTING:
P. J. Hartel (Devon) Ltd.,
8 Baring Crescent, Exeter,
also at Royal Buildings,
St. Andrews Cross, Plymouth.

SOUTHAMPTON

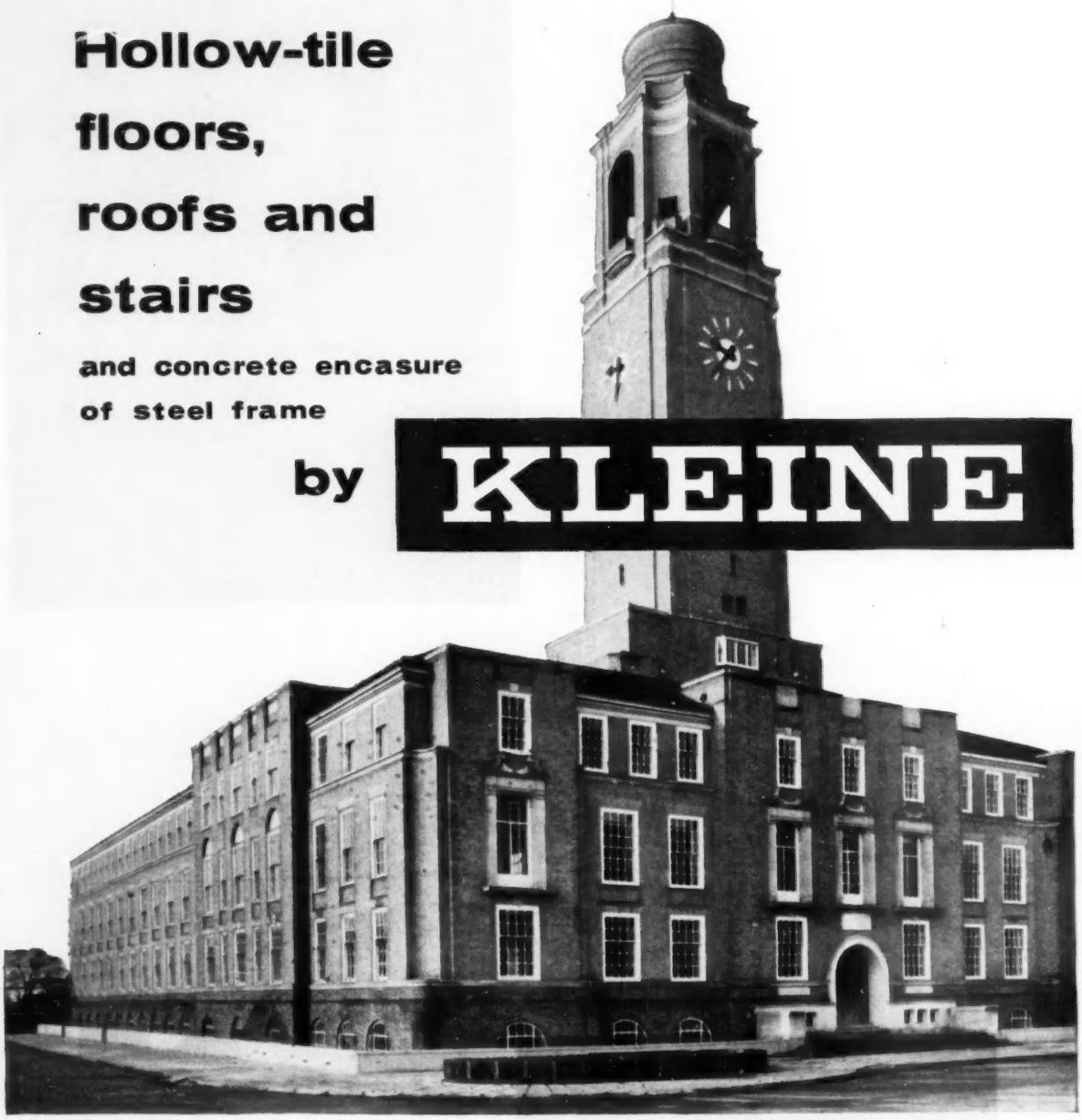
PLASTERING:
A. C. V. Telling (Southern) Ltd.
10 Cumberland Place, S'hampton.

PAINTING:
P. J. Hartel (Southern) Ltd.,
10 Cumberland Place, S'hampton.

Hollow-tile floors, roofs and stairs

and concrete encasure of steel frame

by KLEINE



New Town Hall Barking, for the Borough of Barking, Essex

Borough Architect: M. Maybury, A.R.I.B.A.
Architects: Jackson & Edmonds, F/F.R.I.B.A., M/A.M.T.P.I.
Consulting Engineers: Septimus Willis, M.I.C.E., M.I.Struct.E., A.M.Inst.W., M.Cons.E., and Associates.

KLEINE IN CONCRETE SINCE 1905

THE KLEINE CO. LTD., 9-13 GEORGE STREET, MANCHESTER SQUARE, LONDON, W.1
Branches at Manchester, Birmingham, Newcastle, Bristol, Southampton and Glasgow

TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 163 of this issue. The form can be used for more than one inquiry.

1. Paints

A WATERPROOFING WOOD LACQUER is being produced in which the fungistat is neither water soluble nor contained in a media likely to provide nutrient for bacteria. As a consequence, the active fungicide is carried well into the treated wood and is not leached out by rain. The lacquer does not prevent the wood from 'breathing' and, as a self-coat, its efficiency will not be impaired by normal expansion, contraction and weathering for a period of from three to five years.
Allweather Paints, Ltd.,
36 Great Queen-st., WC2.

2. Miscellaneous

A new synthetic RESINOUS AGENT has been developed, for the hardening and protection of timber surfaces, which is particularly effective for the treatment of timber used in the shuttering and moulding of concrete. When applied by spray or brush it imparts a smooth impermeable and highly-glazed finish. Formwork surfaces so treated are waterproof, and remain unaffected by moisture or alkalis from concrete.
Stuart B. Dickens, Ltd.,
Manor Way, Boreham Wood, Herts.

3. Kitchen Equipment

A new range of KITCHEN UNITS has been introduced which gives a fair degree of flexibility to accommodate individual requirements. There are twenty-eight pieces in the group, all precision made, comprising various sizes of sink units, bases, wall units, end and corner pieces, island units, broom cupboards and storage for refrigerator and washing machines. All tops are covered with Formica plastic whilst the fronts are of Melamine, a plastic resin surface.
Crondale Furniture Co., Ltd.,
Byron-rd., Wealdstone, Harrow, Middx.

4. Water Cooling

We have news of another COOLING TOWER (see issue of Feb. 19) which, for its capacity, is very light in weight. This has been achieved by a new type of fill, of Swedish invention, made from alternate flat and corrugated sheets of a plastics-impregnated cellulose material. This is made up into rigid units which require only a very light supporting structure at the base so that all the internal area of the tower can be occupied by the fill without need for bracings. The fill contains a large number of channels in every square foot, so presenting an extensive cooling surface for the water to flow over, and the permeability of the material is such that the water adheres to the walls of the channels allowing a free passage for the upward air currents.

The tower itself is circular in shape and contains a top-mounted fan which draws the surrounding air up through it from the bottom. Water enters at the top and is distributed across the surface of the fill by a centrally-mounted rotating header pipe, containing a number of perforations along its length through which the water streams. These towers are being made in 12 graduated sizes the largest of which has a diameter of 20 ft., a height

of 12 ft., a total weight of 9½ tons and can deal with up to 90,000 gallons per hour.
Thermotank Ltd.,
Helen-st., Glasgow, SW1.

5. Building Board

A new CHIPBOARD is becoming available that has a wide range of quality veneers on both sides. There is no risk of warping or twisting and the board is said to have an exceptional ease of working. It is delivered sanded and finished to a stage where it is ready to polish. Since the veneers are applied with a strong, damp-proof glue, the chipboard is moisture resistant and stable, although it is not recommended for exterior use where it may be exposed to weather. For interiors, it can, among other things, be used for walls, furniture and table tops in either homes or offices.
Williamson and Kay, Ltd.,
18-20 Derby-rd., Liverpool, 20.

Technical Publications

The annual catalogue of THE MARLEY TILE CO., LTD., of Sevenoaks, Kent, is an extremely well illustrated and comprehensive guide to their products. In an interesting foreword, mention is made of some tests carried out by the company to find the minimum pitch advisable for tiled roofs. Although their conclusions have not reached finality, findings so far indicate that slight rain penetration can occur, under certain conditions, at a pitch of 50 degrees but that there is little harmful penetration until tiles are at an angle of 15 to 20 degrees. At this point there is a complete failure to exclude rain. Why then is 30 degrees stipulated as a minimum for safety? One reason is the danger from fierce gusts of wind, to which a low pitched roof is more vulnerable. Another reason is that many tiles, because of absorption, are susceptible to frost and lamination, although concrete tiles, so it is claimed, are not affected to such a degree. Therefore for pitches below 30 degrees additional safeguards are recommended which will depend on such things as the exposure of the site, the height of building and the degree of protection afforded by adjacent buildings.

Constructional Work

Statistics Show New Record

CONTRACTORS IN GREAT BRITAIN carried out constructional work to the value of £509m. during the 4th quarter of last year, according to provisional figures compiled by the Ministry of Works. Although this figure is only £2m. more than the figure for the 3rd quarter it is nevertheless a record. The value of work done during the year as a whole is provisionally estimated at £1,976m.

From the beginning of 1959 the construction industries have been classified according to the 1958 edition of the Standard Industrial Classification, and these figures now include the work of constructional engineering firms whose main activity is erection (and not fabrication). After allowing for this change and for changes in prices, it is estimated that output in 1959 was about 6 per cent higher than in 1958. The annual increase in output from the industry has only exceeded this once since the end of the war—between 1952 and 1953 when an increase of 7 per cent was achieved.

In the fourth quarter there were few significant changes in the output of different types of work compared with the 3rd quarter. The most significant feature was the continued increase in the amount of private housing which rose to £88m., an increase of 5 per cent. Employment in January, 1960, was 20,000 more than a year earlier. Allowing for seasonal fluctuations, the employment situation improved throughout last year.

Prices of building materials remained relatively stable during the last quarter and the cost of new construction work was unchanged compared with the 3rd quarter of the year.

The index number of the volume of production for the 4th quarter is 115 compared with 113 in the previous quarter. Seasonally corrected there was no change and after increasing in the earlier quarters of the year production levelled off. The weather in the last quarter was seasonally normal and this could hardly be said of the middle of the year.

2. Operatives* Employed by Contractors

	1959		1960
	January	October	January
New Housing ...	252	287	278
Other New Work	431	454	431
Repair and Maintenance... ...	336	344	332
TOTAL ...	1,019	1,085	1,041

*Insured operatives aged 15 years and over, excluding administrative, technical and clerical workers and self-employed operatives.

3. Index of Construction Costs

The index numbers of the cost of new construction (1954=100) are as follows :—

1958		
	Average 115	
1959		
Third Quarter 113	Fourth Quarter 113	Average 113

4. Index of Production

Changes in the volume of work done are shown in the official index of industrial production. The index numbers (1954=100) for construction are as follows :—

Quarters of 1958		
Third 106	Fourth 108	Year 105
Quarters of 1959		
Third 113	Fourth 115	Year 111

CONSTRUCTION : OUTPUT AND EMPLOYMENT IN GREAT BRITAIN

1. Value of Work (in £ million) Done by Contractors (at Current Prices)

	1958		1959		
	Fourth Quarter	Total	Third Quarter	Fourth Quarter	Total
NEW HOUSING :					
For Public Authorities... ...	59	254	62	62	245
For Private Developers ...	71	264	84	88	323
Housing Total	130	518	146	150	568
OTHER NEW WORK :					
For Public Authorities... ...	108	416	116	114	450
For Private Developers—					
Industrial...	67	271	71	69	279
Miscellaneous	53	200	56	57	218
Other New Work Total...	228	887	243	240	947
TOTAL ALL NEW WORK	358	1,405	389	390	1,515
Repair and Maintenance ...	107	415	118	119	461
GRAND TOTAL	465	1,820	507	509	1,976

NOTE.—From the beginning of 1959 the figures for the construction industries are given according to the revised Standard Industrial Classification, 1958. The revised classification includes constructional engineering firms whose main activity is erection (and not fabrication).

News in Brief

Monorail Proposal

SCARBOROUGH CORPORATION are to consider a scheme to build a monorail to link the North and South Bays. It would be nearly two miles in length, running alongside Marine-drive and Royal Albert-drive.

London Builders' Foremen

THE LONDON Builders' Foremen's Association has issued its revised List of Members. Copies are obtainable from the Secretary, 10 Victoria-court, Wembley, Middlesex.

Institute of Builders

THE LIST of members as at January 1, 1960, has been issued from the Secretary's Office, Institute of Builders, 48 Bedford-square, London, WC1. Copies are obtainable, price 4s.

Sand and Gravel Association

SIR SYDNEY LITTLEWOOD, president of the Law Society, was elected president of the Sand and Gravel Association at their National Council meeting on March 3.

RIBA Golfing Society

THE RIBA Golfing Society were beaten by 8½ matches to 1½ by the Cambridge Stymies in their annual match played at St. George's Hill Golf Club, Weybridge on February 27.

Appointment

MR. NORMAN WALSH, deputy building manager with St. Helens Corporation, Lancashire, has been appointed building manager at Barnsley, Yorks. He is 33.

Builders Fined

SIR ALFRED MCALPINE AND SON, LTD. were fined £10 at Smethwick on February 22 for contravening Factory Act regulations on a site at Cape Hill. When a factory inspector visited the site there was no protection erected in front of the hoist shaft of one of the building platforms. The inspector said that, because of this, men could have fallen down the shaft.

Film on Improvement Grants

'NEW GRANTS for Better Homes' is the title of a 16 mm. film sponsored by the Ministry of Housing and Local Government and now available on loan from the Central Film Library for a fee of 5s. The film, which runs for ten minutes, explains the two types of grant available to house owners for carrying out improvements. The kind of work which can be done with the aid of a grant is fully illustrated.

Sponsored Transfers for Apprentices

ONE OF THE chief obstacles to increased apprenticeship recruitment is the inability of some firms to see far enough ahead to enable them to guarantee five years' training in any one trade. Among suggestions in London has been a scheme of sponsored transfers. The LMBA has evolved

Over £2* off every OPIO pump!

and even larger trade discounts than before

SEND NOW for details and prices of the OPIO—the pump which gives the highest head at the lowest cost!

- Unique self-cleaning filter to prevent damage to bearings.
- Silent operation at *any* angle.
- Tested and approved by the British Coal Utilisation Research Association, Leatherhead.
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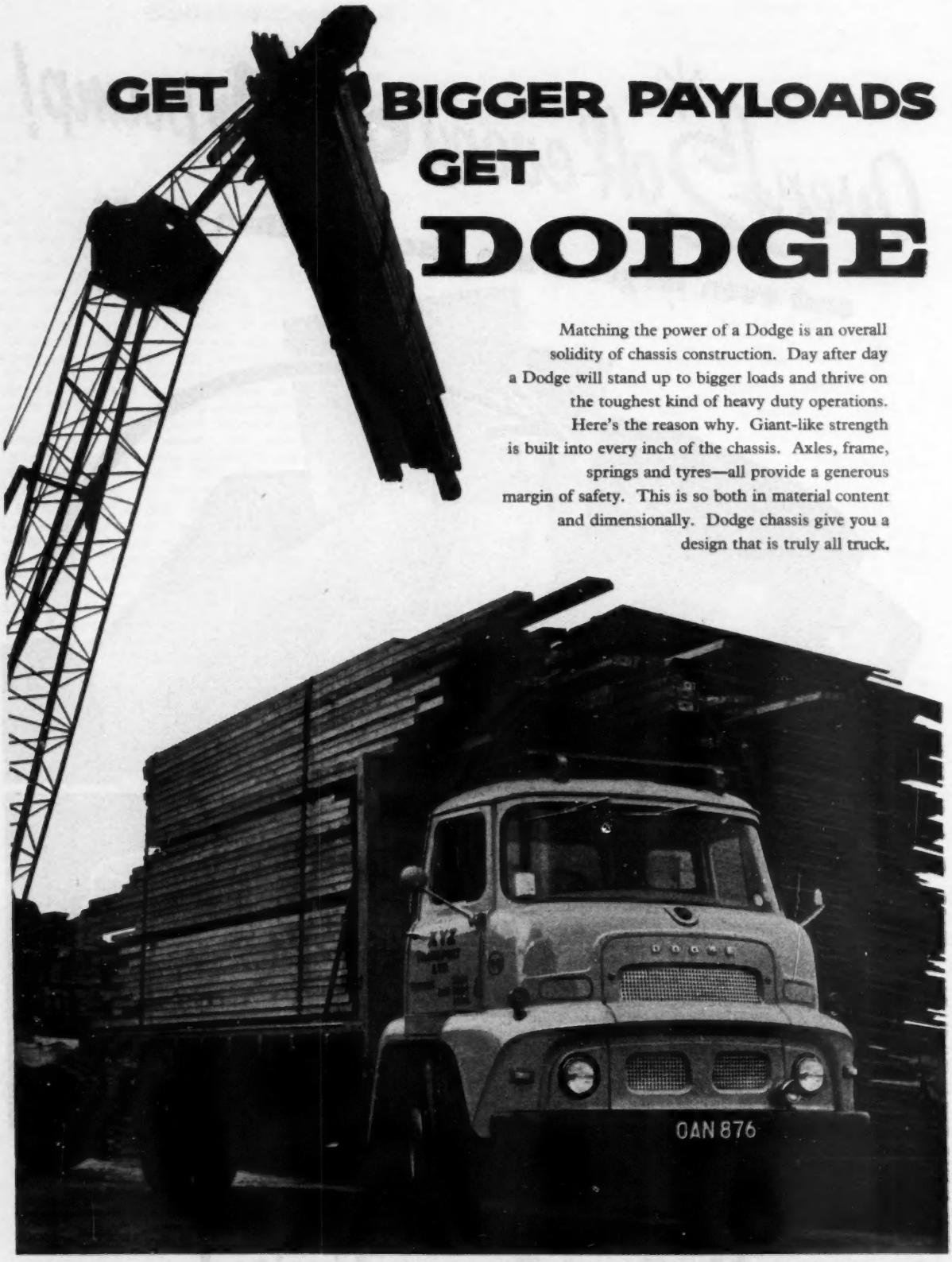
Matching the power of a Dodge is an overall solidity of chassis construction. Day after day a Dodge will stand up to bigger loads and thrive on the toughest kind of heavy duty operations. Here's the reason why. Giant-like strength is built into every inch of the chassis. Axles, frame, springs and tyres—all provide a generous margin of safety. This is so both in material content and dimensionally. Dodge chassis give you a design that is truly all truck.



THE TRUCK THAT CAN TAKE IT

MADE IN BRITAIN AND BUILT TO LAST BY DODGE BROTHERS (BRITAIN) LTD., KEW, SURREY. TELEPHONE: PROSPECT 3456 (12 LINES)

this scheme under which employers are invited to take boys for training, secure in the knowledge that, should they be unable to complete it, they are guaranteed the transfer to other suitable employers. The working of this scheme has required co-operation from many firms whose assurances have enabled the LMBA to give this guarantee.

Private Enterprise Housing

MR. C. JOHN DUNHAM, president of the Co-operative Permanent Building Society, presiding at the Society's annual meeting in London on March 5, said that the prices of newly built houses had risen by some 6 per cent in 1959. 'This we attribute in the main to the cost of land,' he said. 'The scarcity of land is also leading to intensive redevelopment on the sites of older houses in the inner suburbs. It is in this direction that a good deal of future development in our large cities will trend over the next decade, but this kind of development is being done piecemeal and not always in the most satisfactory way from a planning point of view. It is a problem to which I hope thought is being given by the appropriate bodies. It is in these inner areas too, that there may well be scope in the coming years for building to let by private developers. This is a field of finance which the building societies should be prepared to support.'

The Preservation of Timber

A NEW TDA Test Record (C/TR/3), 'Methods of Preserving, Staining and Finishing Scots Pine for use as External Timber Cladding' by A. C. Oliver, MSc, has been issued by the Timber Development Association. The problem investigated was that timber, specified for exterior panels, should be treated with a wood preservative and that the final colour should be a rich red brown. Fire retardant treatment was also considered desirable but varnishing was not to be adopted unless essential. The publication describes the results of the investigation. Copies of the report may be obtained, price 3s. 6d., from the Association at 21 College-hill, London, EC4.

Company News

BLUNDELL, SPENCE & CO. LTD have recommended the payment of a final dividend of 14 per cent (less tax) on the ordinary stock of the company in respect of the year ended October 31, 1959.

The directors of CONSTABLE, HART AND CO. LTD. have recommended a dividend of 10 per cent (less tax) for the year ended September 30, 1959. The figure for 1958 was also 10 per cent.

THE ASSOCIATED PORTLAND CEMENT MANUFACTURERS LTD. announce that their subsidiary company THE COMMONWEALTH PORTLAND CEMENT CO. LTD., of Sydney, Australia, is making an offer of 3s. a share to holders of £A1 Ordinary shares of METROPOLITAN PORTLAND CEMENT LTD., Sydney, subject to acceptance by March 14, by holders of not less than 90 per cent of such capital.

THE GEORGE COHEN 600 GROUP LTD. have declared an interim dividend of 4½ per cent (less tax) on the £3,125,000 ordinary stock of the company, payable March 31, 1960, in respect of the company's financial year ending on that date.

A company styled A. C. V. TELLING (SOUTH MIDLANDS) LTD. has been registered, and will commence operating as from May 2 from 10 Westgate-st., Gloucester. This will carry out plastering work both solid and fibrous. Staff are being drawn from within the HAT group of companies.

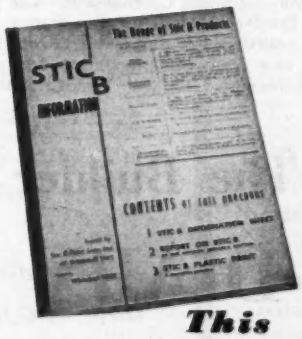
OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA.—The office of the High Commissioner for Australia has informed 'The Builder' that prefabricated houses, building materials and building plant are now exempt from the requirements of the Customs (Import Licensing) Regulations. No changes have been made to the Customs duty applicable to any article as a result of the recent import licensing variations.

AFGHANISTAN.—A model town will be built at Kushk, in Herat Province. Plans include hotels, a market place, public parks and residential areas.

CANADA.—The Gypsum Alabastine and Lime Co. is to construct a $4m. plant at Caledonia, Ontario. . . . A $2.5m. plant is to be constructed at Ottawa for the Cookesville-Laprairie Brick Co. . . . John Laing and Son (Canada), Ltd., have been awarded the contract for 3.22 miles of Trans-Canada Highway, Vancouver to Fraser River section at a cost of $2,098,389. . . . Rocky Mountain House, Alberta, is the site chosen for a $50m. pulp and paper mill for Alberta Paper Mills, Ltd. Tenders to be called immediately. . . . Construction of Toronto's new harbour is to cost an estimated $60m. . . . Dominion Stores Limited are to spend $7m. on new construction in the province of Alberta.



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DOMINICAN REPUBLIC.—A new firm has been set up for the manufacture of building materials from sugar cane bagasse. The company is to be called Industrial Dominico-Suiza C. por A. and work is to be started immediately on a factory adjacent to the largest sugar mill in the Republic at Haina. The cost of the factory and machinery will amount to $2,262,000. Machinery will be provided by the Swiss Metallurgical Corporation which will be associated with the new company.

DOMINICAN REPUBLIC.—Two new hospitals have been commenced. The largest, a children's hospital at Santiago, will cost $1m. It will consist of three intercommunicating wings, each of three floors, connected by passenger and service lifts. The building will be fully air-conditioned. The contractors are Mera, Munoz and Fondeur. . . . A smaller general hospital is to be built at Puerto Plata at a cost of $333,000. The contractors are the Cabral Construction Company.

ETHIOPIA.—Plans are being prepared for a small hydro-electric station on the Blue Nile south of Bahar Dar to provide power for the cotton factory at Dire Dawa. A small hydro-electric station may also be built near Jimma. . . . Other industrial developments which have been discussed during the year include an oil refinery at Massawa or Assab, a caustic soda factory at Assab (the Russians are known to be interested in these) a cement factory at Massawa or near Addis Ababa and a paper factory also in the region of the capital.

ITALY.—The second instalment of about £1,000,000 has been allocated by the Ministry of Public Works to the enlarging of the industrial area at Porto Marghera, Venice. Further details are now available concerning the new steelworks centre at Taranto; when completed it will cover an area of 5m. sq. m. The whole of this area will be taken up with expropriations and technical preparations. The construction will take two years. The cost will be in the region of £100m.

KENYA.—Two new housing schemes and a £½m. redevelopment project to rid Nairobi of one of its worst slum areas are being planned by the City Council's Social Services and Housing Department. The council is setting aside an area for 249 plots for owner-built houses. The redevelopment scheme will consist of about 340 permanent houses.

LIBYA.—Plans for the addition of a small cold store to the new chilling plant and abattoir in Benghazi are under discussion. It is expected that tenders for the constructional work will be invited by the Federal Government in 1960. Approximately £120,000 has been allocated for the project.

MALAYA.—The Dunlop company is to build a (Malayan) $25m. tyre plant at Petaling Jaya, Federation of Malaya. . . . Glaxo Laboratories (Malaya), Ltd., have opened a factory in Petaling Jaya. It is the first of the 50 factories due to be provided this year at Malaya's new town by a wide variety of companies. . . . Mr. B. M. Iversen, of Ipoh and Penang, is

architect for new studios and offices of Radio Malaya in Penang. . . . Work on a (Malayan) $850,000 building for the Language and Literature Agency would start in August in Kuala Lumpur, said Syed Nasir bin Ismail, director of the agency. An architect would be selected soon. . . . Malayan Nozawa Asbestos Cement Co., Ltd., is to build a (Malayan) $1m. asbestos factory at Petaling Jaya with joint Malayan and Japanese capital. . . . Malayan Breweries are to build a (Malayan) $3½m. brewery in Kuala Lumpur. A site has been selected in Sungei Besi-road. . . . Tenders have been invited for the construction of a factory at Petaling Jaya for Lion Dentifrice (Malaya), Ltd. The architect is Mr. T. C. Wong, of Kuala Lumpur.

NEW ZEALAND. — In a five-year programme the New Zealand Government will build 300 houses for post-primary teachers at schools on the Country Service List. The first 60 will be built during the coming financial year.

SOUTHERN RHODESIA.—A £300,000 contract for the erection of a multi-storey building for the Ottoman Bank in Salisbury has been awarded to John Laing and Son (Rhodesia), Ltd. The building is expected to be completed in February, 1961, and a feature of the construction is that all the office floors are to have mosaic parquet wood block flooring.

SOUTHERN RHODESIA.—The Schlesinger Organisation is to erect a building in Salisbury, costing between £½m. and £¾m. for the African Life Assurance Society. The organisation is also planning new African Life buildings in Lusaka and Ndola. In Ndola land has been purchased and a building is being planned at a total cost of about £85,000. In Lusaka, a £90,000 project is being negotiated.

TANGANYIKA.—A giant irrigation and power project for Tanganyika, estimated to cost between £80m. and £100m., is to be undertaken in the not too distant future. This 'second Kariba' is one of 15 dam sites chosen by engineers and hydrologists. The main dam would be at a point called Stiegler's Gorge, where the Rufiji passes between 400-ft. cliffs about 120 miles from the sea.

THAILAND.—The Board of Investment has approved the offer by the Philips Company of Thailand to establish an electric bulb factory there. It has also approved in principle a similar proposal by the Osram Company of Germany. The prospects for the Kra Canal, which would link the Gulf of Siam direct with the Indian Ocean cutting across the Isthmus of Kra, have again been under discussion. The Prime Minister of Thailand has reported that a Japanese company (presumably the Toyo Menka Kaisha) had offered to conduct a preliminary survey free of charge and without obligation.

UNITED ARAB REPUBLIC.—A contract for the construction of Tartous new harbour has been awarded to Pomorsko Gradjevno Produzece of Split, Yugoslavia. The project is to be completed in five years during which time 50 per cent of the cost will be paid. The Yugoslav firm built the Port of Lattakia and was awarded the contract without public tender.

Richard Neutra to Work in SA

Richard Neutra, the eminent American architect and a critic of Johannesburg's residential architecture as 'lethargic' intends designing in South Africa. He was admitted as a member of the Institute of South African Architects last month, and will probably work in association with a Johannesburg firm.

SCOTTISH BUILDER

Scottish Housing, January

THE NUMBER of new houses completed in Scotland in January was 2,415, an increase of 251 compared with the same month last year.

The monthly return of the Department of Health for Scotland and the Ministry of Housing and Local Government is published by HMSO, price 3d.

Of the 383,458 houses built in Scotland since the war, 349,496 were built by public authorities and 33,962 by private builders. In England and Wales 18,336 houses were built in January.

Docks Development Scheme

A £1,700,000 DEVELOPMENT scheme is planned for Grangemouth Docks by the British Transport Commission. The project involves 22 new electric cranes, two new transit sheds, improved railway layout, new staff accommodation and road improvements at the Grange Docks, largest of the group at Grangemouth. The scheme has been encouraged by the steady expansion of trade at this port and the prospect of still further increase.

The Builder

DIARY

1960

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SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from February 2, 1959. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 9d.; Labourers, 4s 2½d.

For apprentices, the rates are :

Year	Percentage of Craftsman's rate	For week of 44 hours s.	d.
1st	25	52	3
2nd	33⅓	69	8
3rd	50	104	6
4th	66⅔	139	4
5th	75	156	9

For female labour, the rates are :

	s.	d.
Operatives on craft operations (at end of probationary period)	4	2½
Operatives on labouring operations (at end of probationary period) ...	3	8½

New Buildings

ABERDEEN.—Wm. Wilson & Co., plumbers' merchants, Aberdeen, have offered to acquire Mannofield Bus Depot from city at cost of £32,000 and Finance Com. has recommended acceptance. Aberdeen Corpn. have received approval for first stage of their multi-storey housing development at Gallowgate. Preparatory work is to begin and tests to be made to determine whether site will support multi-storey construction of type proposed.

AYR. — The Victoria Bridge across the River Ayr at Ayr is to be reconstructed at cost of £50,000. The Motherwell Bridge and Engineering Company will carry out the work.

BERWICKSHIRE CC.—Laying and jointing approx. 333 lin. yd. of 3 and 2in. dia. spun-iron piping, with attendant works, at Coldingham-Coldingham Hill. Applications to County Water E, Health Offices, Bridgend, Duns.

CUMNOCK. — John Foster & Sons, cotton manufacturers, Ayr-rd., Cummnock, to build a £70,000 extension. Dean of Guild approval has been given.

GLASGOW. — The Citizens Theatre is planning a transfer from the Gorbals to the centre of Glasgow.

GREENOCK. — First contracts for the Inchgreen, Greenock, graving dock will be issued within the next few months. The £4,500,000 project is being sponsored by the Firth of Clyde Dry Dock Co., Ltd.

KIRKCALDY. — Kirkcaldy Chamber of Commerce has opposed a proposal for large scale redevelopment of east side of High-st. by Development Corpn. TC had tentatively indicated acceptance of these plans in principle. Protests from owners have had the effect of encouraging delay, and an assurance has now been given that no reconstruction will be undertaken without first consulting the owners.

MIDLOTHIAN CC.—Several works (except electrical work) in one contract for provision of clinic and district nurse's house at Polbeth, West Calder. Applications to County A, 32 Palmerston-pl., Edinburgh.

NORTH UIST.—A causeway linking North Uist and Benbecula will now cost £650,000 as against £462,000 est. originally. The contractors have asked for six months' extension of completion date to allow effective completion.

PAISLEY.—TC to build two more blocks of 15-storey flats at cost of over £250,000. SSHA will erect these at Foxbar.

A DATE TO REMEMBER

MARCH 31 1960

The holiday period which began last April ends on 31st March 1960.

Any operative employed in the Building and Civil Engineering Industries who still holds one or both parts of his Yellow 1959/60 Holiday Card should, in order to obtain payment, arrange for his employer to grant him the appropriate holiday before **31st March, 1960.**

Neither the holiday nor the credits can be carried forward to the next Holiday Period.

Any operative who has left the Building and Civil Engineering Industries, or who is unemployed or incapacitated for twelve or more consecutive days, should apply direct to the Management Company for payment of any outstanding credits on his Yellow 1959/60 Holiday Card.

Although a period of three months' grace is allowed, all claims should be made promptly in accordance with the instructions on the card. No direct claim can be entertained after 30th June, 1960, when the period of grace expires.

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Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding the entry indicates that applications must be received by this date.

BUILDING

MARCH 14

(R) WELSH JOINT COM.—Erection of three-storey office block and extension and alterations to existing building at 30 Cathedral-rd., Cardiff. T. Alwyn Lloyd & Gordon, 8 Cathedral-rd., Cardiff, architects.

MARCH 15

(AR) CLIFTON CATHOLIC DIOCESAN SCHOOLS COMMISSION.—Erection of St. Pius X RC prim. sch. Burrough & Hannam, Bedford-hse., 23 Richmond Hill, Bristol 8, architects. Tenders by April 26.

(AR) CUMBERNAULD DEVELOPMENT CORPN.—(1) Two single-storey standard factories at Blairlinn site. (2) Four-storey maisonette block and three-storey flatted factory at Seafar 1 site. City A & Planning Officer.

(AR) LEEDS REGIONAL HOSPITAL BD. —Fixed price tenders for alterations to pavilion block at Scotton Banks Hospital, Knaresborough. A to Bd. Dep. £2 2s.

(AR) LEEDS REGIONAL HOSPITAL BD. —Fixed price tenders for improvements to mass radiography unit at Baker-st., Hull. A to Bd. Dep. £2 2s.

MARCH 18

(AR) SPENNYMOOR UDC. — Extensive alterations to Town Hall. C.

(AR) WEDNESFIELD UDC.—Phase 2 of Ashmore Park neighbourhood centre consisting of 14 shops with maisonettes over, branch library with two flats over, public conveniences and 22 garages. E&S. Dep. £3 3s. Tenders by April 25.

MARCH 19

(AR) ST. HELEN'S EC.—Alterations to lavatory, cloakroom and storage accommodation at Parr Flat jun. sch., Brunswick-st. Gornall, Kelly & Ptnrs., 155 The Albany, Old Hall-st., Liverpool, architects. Tenders by April 18.

MARCH 21

(AR) CRAWLEY UDC.—82 dwellings at Brewer-rd., Southgate. C.

(AR) LETCHWORTH UDC.—Extensions to library and museum at Broadway. C.

(AR) STRATFORD-UPON-AVON BC.—Fixed price tenders for improvements and repairs to 95 pre-war council houses at Clopton estate. Boro' E&S. Dep. £2 2s.

MARCH 22

NORTHERN IRELAND HOUSING TRUST.—61 dwellings and 16 garages, with ancillary and engineering works, at Ballyclare. 12 Hope-st., Belfast. Dep. £3.

MARCH 23

ENNISKILLEN (Eire) BC.—Fixed price tenders for 12 houses in two blocks at Factory-rd., Enniskillen. TC, Town Clerk's Office, Town Hall, Enniskillen. Dep. £5 5s.

(A) LITTLEHAMPTON UDC.—Six 'M' type houses at Wickbourne estate, Helyers Green. E&S. Dep. £2 2s.

MARCH 24

(AR) GREENWICH MBC. — Cleansing station and improvements and extensions to workshop, garage and welfare buildings at Tunnel-ave. depot. Boro' E&S.

N. IRELAND FA.—Construction and completion of new fire station at Lodge-rd., Coleraine. Secretary, 43 Castle-st., Lisburn. Dep. £5 5s.

MARCH 25

(A) BOOTLE CBC.—Alterations and additions at county grammar sch. for girls, Breeze Hill. Boro' S. Dep. £2 2s.

BROMLEY EC.—Erection of two laboratories at county grammar sch. for girls, Nightingale-la. Boro' E.

(AR) MERTON & MORDEN UDC.—48 flats at Abbey-rd./Nelson Grove-rd., Merton. William Ryder, 21 Bruton-st., Berkeley-sq., W1, achitects.

MARCH 28

(AR) BELFAST CITY C.—Erection of two tower blocks of flats at North Queen-st., development scheme (Victoria Barracks). TC.

MARCH 31

BINGHAM RDC.—Two shops and two flats at Keyworth and two shops and two flats at Bingham. Wm. Saunder & Ptnrs., 24 Castle Gate, Newark-on-Trent, Notts. Dep. £3 3s.

(A) NESTON UDC.—50 dwellings at Clayhill estate. S. Colwyn Foulkes, Merton-pl., Pwyllycrochan-ave., Colwyn Bay, N. Wales, architect.

APRIL 2

(A) ACCRINGTON BC.—Fixed price tenders for erection of Fish Market. Boro' E&S. Dep. £2.

APRIL 4

(A) RUGBY BC.—Fixed price tenders for paddling pool, shelter, pump-house and refreshment kiosk, at recreation ground. Boro' S. Dep. £2 2s.

APRIL 6

(A) GODSTONE RDC.—Four blocks of 12 units at South Nutfield. E&S. Dep. £2 2s.

(A) SOUTHEND-ON-SEA CBC.—Foundations and erection of movable classrooms and incidental works at Wentworth High sch. for girls. Boro' A.

(A) WELWYN RDC.—16 garages at Queensway estate. S. Dep. £2 2s.

APRIL 8

(A) READING CBC.—Fixed price tenders for 118 dwellings and 52 garages at Bulmershe estate. Boro' A. Dep. £2 2s.

APRIL 9

(A) SAFFRON WALDEN RDC.—Four flats at Wimbish. C.

APRIL 15

(A) HUNTINGDONSHIRE CC. — Fixed price tenders for family group home at St. Neots. County A.

(A) WARWICK BC.—Erection of houses and bungalows at Percy estate central area, site 'A'. Boro' E&S. Dep. £2 2s.

No Date

(A) HORTON HOSPITAL MANAGEMENT COM.—Inclusion in approved list of contractors for building, engineers or electrical works at Horton Hospital. Secretary to Com.

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SERVICES, PAINTING, MATERIALS, ETC.

MARCH 18

(AR) EAST SUSSEX CC.—(1) Re-slating of roofs at Furze House home for the aged, Flimwell. (2) Minor alterations, including redecorations, at 'The Yews' home for adolescents, Haywards Heath. County A (separate contracts).

MARCH 21

HEMEL HEMPSTEAD BC.—Exterior painting of 152 Council houses at Lawn-la./Deaconsfield-rd./Seaton-rd./Wood-cres. / St. Alban's Hill/Stonelea-rd./Upper Barn. Boro' E.

(A) ST. ALBAN'S CITY C.—External painting of 93 houses, 48 flats and 13 garages. City E&S. Dep. £2 2s.

(A) SWINDON BC.—Exterior re-painting of approx. 600 Council houses at Walcot estate. Boro' A.

MARCH 22

(A) CHESHAM UDC.—External painting of 193 houses and flats. Housing Manager. Dep. £1 1s.

MARCH 24

THORNABY-ON-TEES BC. — Exterior decoration of 194 Council houses (three contracts of 143, 25 and 26). Boro' E.

MARCH 25

(A) CROYDON CBC.—External painting of houses. Housing Mgr., 71 Park-la. Dep. £1 1s.

APRIL 2

(A) RIPLEY UDC.—Replacement of metal window frames in 52 Council houses. S.

APRIL 4

(A) DEPTFORD MBC.—External redecoration works to Council dwellings. Boro' E.

APRIL 21

(A) WALLASEY CBC.—External painting of 886 dwellings and 10 garages. Boro' A.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

MARCH 21

CHESTERFIELD RDC.—(a) 2,800 sq. yd. of tarmacadam carriageways, 940 lin. yd. of 6 to 33in. dia. sewer, 500 lin. yd. of 6in. dia. sewer, with manholes; comprising first stage of Streetfields housing estate. (b) 1,730 sq. yd. of tarmacadam and 1,530 lin. yd. of 6in. x 12in. flat-topped edging, etc., at Woodview housing estate. E&S. Dep. £2 2s. (each contract).

TUNBRIDGE WELLS RBC.—Roads and sewers at Sherwood estate extension, comprising:—(a) 1,600 sq. yd. of 7in. rc carriageway and total of 530 lin. yd. of 6 to 15in. sewers, with manholes. (b) 2,300 sq. yd. of 6in. rc carriageway and total of 460 lin. yd. of 6 to 12in. sewers, with manholes. (c) 5,300 sq. yd. of 7in. rc carriageway and total of 1,500 lin. yd. of 6 to 12in. sewers, with manholes. Boro' S & Waterworks E. Dep. £2 2s.

WEDNESFIELD UDC.—Fixed price tenders for site preparation works on section four of Ashmore Park estate, comprising: 5,640 lin. yd. of 7 to 27in. dia. foul and SW sewers, 22,000 super yd. of pitched and blinded carriageways and 6,700 lin. yd. of concrete kerb foundation, etc. E&S. Dep. £2 2s.

MARCH 24

NANT CONWAY RDC.—Fixed price tenders for 1,000yd. of 3 and 4in. dia. spun-iron pipe water mains, etc., at Trefriw, Caerns. Richards & Dumbleton, constg. engrs., 45 Newhall-st., Birmingham, 3. Dep. £2.

MARCH 25

(R) DONCASTER RDC.—8,700yd. of 6 to 15in. cement, granite, concrete and spun-iron pipe sewers, manholes, stoneware pipe laterals, ventilators, etc.; 1,200yd. of 18in. and 600yd. of 4 and 5in. spun-iron pumping mains, sewage pumping station and two ejector stations, etc., at Parish of Sprotbrough. D. Balfour & Sons, constg. engrs., 131 Victoria-st., SW1. Dep. £10.

MARCH 28

CLAY CROSS UDC.—Fixed price tenders for 2,078yd. of 6 and 9in. dia sewers, etc., at Stretton-rd. Sewerage. Elliott & Brown, Ccl.'s constg. engrs., Stanley-hse., Pelham-rd., Nottingham. Dep. £5 5s.

MARCH 29

WALTON & WEYBRIDGE UDC.—Con-

struction of SW sewer at Sandy-la. and Terrace-rd. E&S.

APRIL 1

CLUN RDC.—40,000 lin. yd. of 2 to 4in. dia. asbestos-cement water mains, 5,000 lin. yd. of smaller dia. water mains, and three rc service reservoirs, etc., at Chirbury, Marton and Bent Lont. C. Dep. £5 5s.

APRIL 2

BRIGHTON CBC.—Fixed price tenders for 5,200 lin. yd. of 12in. dia. and 500yd. of 6in. dia. spun-iron pipes, etc., at Lewes-rd. district. Ch. E. Dep. £3 3s.

APRIL 4

SCOTTISH HOME DEPT.—New bridge over Bluther Burn at New Mills, Fife. Blyth & Blyth, constg. engrs., 135 George-st., Edinburgh. Dep. £15.

APRIL 8

HAVANT & WATERLOO UDC.—Private street works:—Fixed price tenders for excavation to formation level and provision of 2,500 sq. yd. of 6in. rc. carriageway; 770 lin. yd. of kerb; 1,680 sq. yd. of flexible footway; 610 sq. yd. of verges; 275 lin. yd. of 9in. dia. SW sewer; 120 lin. yd. of 9in. dia. SGSW soil sewer, and 190 lin. yd. of 4in. dia. house connections, etc., at Hart Plain-ave. E&S.

APRIL 11

(A) LIVERPOOL CITY C.—River intake and pumping station and high lift pumping station at Huntington, nr. Chester. Water E, 55 Dale-st. Dep. £5.

ST. AUSTELL UDC.—Construction of sewage pumping station, 110yd. of 12in. cast-iron sea outfall and short length of 18in. concrete sewer. E&S. Dep. £3 3s.

APRIL 19

FORTH ROAD BRIDGE JOINT BD.—Roadworks south of Firth of Forth, comprising:—(a) Three miles of dual-carriageway approach roads; (b) seven rc or steel bridges, and (c) rc abutments. Mott, Hay & Anderson, constg. engrs., 14 Melville-st., Edinburgh, 3. Dep. £10.

GENERAL BUILDING WORK (LONDON)

CAMBERWELL.—Housing Development.—114 dwellings, etc., are proposed by LCC Housing Com. for Banstead-st. Est. cost £384,400.

CROYDON.—Heating Improvements.—The heating system at Shirley county grammar sch. is to be replaced by a modern central heating system supplied from an automatic oil-fired boiler. Total cost £27,960.

DEPTFORD.—School Extension.—The erection of first stage of new building for immediate use as accommodation for South East London day college at Lewisham-way, and intended ultimately for Deptford county college, is included in 1959/60 building programme for further education. Est. cost £23,000.

FINSBURY.—Hall of Residence.—The erection, on site at junction of Bunhill-row and Chiswell-st., of a hall of residence for 350 students for Northampton College of Technology and of a new technical college is included in the LCC approved building programme for further education for period ending March 31, 1961. Est. cost £1,014,155.

HACKNEY.—Fire Station Improvements.—LCC Fire Brigade Com. propose to provide a new drill tower at Homerton fire station. It has been so designed that it can be incorporated in the new lay-out when the fire station is rebuilt. Est. cost £17,000.

HACKNEY.—Housing Site.—LCC Housing Com. propose to acquire, by compulsory purchase if necessary, a 26-29 acre site at Downs-rd. The land comprises 315 houses (16 with shops), two PHs, an off-licence, 12 factories or workshops and 12 other properties. The land may be developed in conjunction with adjoining land already owned by the LCC, part of which comprises 29 houses and eight temporary bungalows, the rest being clear of buildings. Est. cost of acquisition, etc., £854,000.

HOLBORN.—Road Development.—The LCC TP Com. are to contribute half the cost of acquisition of 101 Tottenham Court-rd. at an est. cost, including incidental expenses, of £34,743, which will enable a widening to 90ft. to take place at Tottenham Court-rd. in section between Maple-st. and Howland-st

ISLINGTON.—Polytechnic Extension.—The LCC Further Ed. Sub-Com. approved a scheme prepared by the Council's architect for providing a 13-storey extension for Northern Polytechnic. Estimated cost of the scheme is £701,165, which includes nearly £34,000 for alterations to the existing buildings. Furniture and equipment will cost an additional £35,000 and major technical equipment about £191,000. A scheme for further alterations to the existing buildings will be prepared by the governors' architects. The scheme requires the consent of the Minister of Housing and Local Government.

ISLINGTON.—Acquisition, etc.—LCC Housing Com. propose the acquisition, clearance and partial redevelopment of about 5.28 acres at King Henry-st., comprising 129 houses (including a PH and some with shops, garages or stores), a store, a motor-repair garage, a site used for advertising, a store yard, and land clear of buildings (part of which is already the subject of a confirmed purchase notice). The land is zoned for residential purposes and in conjunction with about ½ acre of cleared land already owned by the LCC would provide an area of about 5.75 acres sufficient for the erection of about 160 dwellings. About 176 families would be displaced. Est. cost of acquisition, etc., £134,000.

LEWISHAM.—School Extension.—The LCC Schools Planning Sub-Com., subject to the approval of the MoE, are to extend Catford sec. sch. for boys to provide accommodation for 1,200 boys. Bronek Katz and R. Vaughan, architects. Est. cost £404,633.

LONDON CC.—Halls of Residence.—The LCC Further Ed. Sub-Com. propose to provide halls of residence for students at Borough, Regent Street and Woolwich polytechnics. The MoE is to be asked to agree to the necessary amendment of the London Scheme of Further Education so that precise requirements of each college may be determined and the provision of sites and other preliminary arrangements proceeded with.

POPLAR.—Extension.—Fire Brigade Com. of LCC propose to acquire, by compulsory purchase if necessary, about one-fifth of an acre of land adjoining Bow fire station at est. cost of £22,000. The land is required for the extension of the fire station drill yard and the construction of a modern drill tower.

POPLAR.—Acquisition, etc.—Housing Com. of LCC propose the acquisition, clearance and partial redevelopment of about 13.77 acres at Ford-rd., comprising 254 houses (including some with shops, workshops, garages and yards, etc.), 22 temporary bungalows, garages, shops, offices, workshops, stores, yards, a beer house, a warehouse, two factories, a disinfection depot and land clear of buildings. The land is zoned for residential purposes. About 364 families would be displaced and about 529 dwellings could be erected. Est. cost of acquisition, etc., £593,000.

SLOUGH.—Garages.—291 garages are to be provided by LCC Housing Com. for Britwell estate. Est. cost £49,980.

WESTMINSTER.—Office Development.—The architect for a six-storey office building of 20,000 sq. ft., to be erected at Carnaby-st., W1, for Provestment Ltd. is R. H. Minty. The quantity surveyors are Veale and Sanders, 19 Hanover-sq., W1, not Veal & Saunders, as was previously stated.

Contracts Placed

We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.

(PROVINCIAL)

ASHTON-IN-MAKERFIELD.—UDC to erect 90 houses at Low Bank housing estate: UDC approved plans for housing development at Downall Green-rd./Booths Brow for Mr. A. Wain: Liverpool Diocesan Development Bd. propose new church at Bryn-rd.

BARNARD CASTLE.—RDC to borrow £20,000 for 22 old people's bungalows.

BASINGSTOKE (Hants).—BC to seek planning permission for 97 dwellings and 47 garages at South Ham estate: BC plan to erect ten bungalows, six flats and six single-person flatlets for old people at Council estate at South Ham, est. cost, £40,317.

BELPER.—RDC propose 20 aged persons' bungalows at Mulberries estate, Allestree, and housing development at Danesby Rise, Denby.

BIRMINGHAM.—Works & Buildings Com. of Birmingham Regional Hospital Bd. have recommended for approval, in principle, a scheme for provision of diagnostic and treatment unit at All Saint's Hospital, Winson Green. Est. cost £477,500 (including fees).

NORTH RIDING.—CC to spend £54,000 on combined fire and ambulance station at Redcar: CC recommended to approve Marton Moor by-pass scheme, est. cost £95,000.

TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

ANTRIM.—Construction of 3½ and 4 miles of 27ft. carriageway on Belfast-Larne-rd., from Ballynure to Houston's Corner, for CC. (A) T. Lowe & Sons, Ltd., £200,324.

BEDLINGTON.—New premises for YMCA. S. W. Milburn & Ptnrs., 9 Esplanade, Sunderland, architects. (A) R. Carse & Son Ltd., Amble, £20,000.

BIRMINGHAM.—Erection of foam store in precast concrete units at Bromford bulk plant for Esso Petroleum Co. Ltd. (A) Turriff Construction Corpn. Ltd.—Restaurant, medical and personnel block, multi-storey extensions to BW4 at Shaftmoor-la. for Joseph Lucas Ltd. (A) Turriff Construction Corpn. Ltd.

BRADFORD.—Blind welfare centre for TC. (A) L. Sheffield Ltd., 7 Corban-st., Bradford, 4, £34,511.

BURNLEY.—Erection of 'Fir Grove' hostel for BC. (A) Howarth Construction Co. Ltd., Trafalgar-st., Burnley, £36,591.

CARLISLE.—Improvements at junction of Victoria Viaduct and James-st. for City C. (A) Border Engineering Contractors Ltd., Queen-st., Whitehaven, £14,884.

CHERTSEY.—20 maisonettes at Green-la., Addlestone, for UDC. (A) John Farmer (Builders), 47 Hanworth-rd., Sunbury-on-Thames, £33,289.

CHESTER LE STREET.—34 houses for UDC. (A) Direct labour.

CONSETT.—New Post Office and sorting office at John-st. and motor transport workshop at West Victoria-st. (A) Robert Gallacher Ltd., Laburnum-ave., Blackhill, Consett.

DEWSBURY.—46 dwellings, roads and sewers at Batley Carr redevelopment area for BC. (3) Harlow & Milner Ltd., 33 Warrengate, Wakefield, £85,247.

EASINGTON.—Old people's hostel for Durham CC. (A) Hewitt & Sons Ltd., Station-wks., Haswell, Co. Durham, £46,146.

ENFIELD.—102 houses and 33 garages at World's End-la. housing site for BC. (RA) Townsend & Collins Ltd., Goat-la., Enfield, £179,865.

GLOUCESTER.—Extensions at Longford sec. sch., Gloucester, for City C. J. V. Wall, architect. E. R. Babbs & Sons, quantity surveyors. (A) Ford & Weston Ltd.

HACKNEY.—Foundation and rc frame for main structure of central works depot at Reading-la. for MBC. E. Spriggs & Ptnrs., quantity surveyors. J. Liversedge & Ptnrs., constg. engrs. (A) The Modular Concrete Co. Ltd., Staines-rd., Bedfont, Mddx., £68,544.

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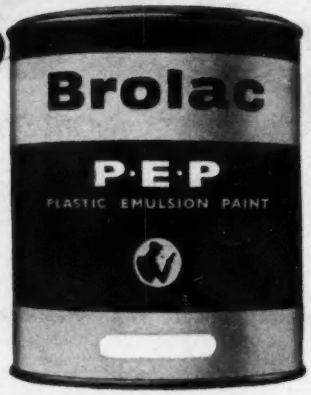

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HAMMERSMITH.—Extension of factory and offices at Queen's Wharf for Rosser & Russell. (A) Higgs & Hill Ltd., £71,000 (approx.).

HERTFORD.—77 dwellings and 16 garages at Sele Farm estate for BC. (A) George Mott & Son, £142,026.

HULL.—Two single-storey transit sheds at No. 12 quay, King George Dock, for British Transport Docks. (A) A. Monk & Co. Ltd., Padgate, Warrington (main contract and associated rail and road works), and South Durham Steel & Iron Co. Ltd. (steelwork).

JARROW.—84 houses at Boldon overspill area for TC. (GD) Direct labour.

LONDON (City).—Two-storey rc framed office block adjoining St. Stephen's Church, 38 Walbrook, EC4, for The City Acre Property Investment Trust Ltd. A. Smith, architect. (A) Wates Ltd., £17,570.

LONDON CC.—Erection of Brookmill county prim. sch. (first stage), Greenwich.

Bernard Sunley & Sons, Ltd. ...	£57,928
Rowley Bros., Ltd.	56,500
W. J. Simms, Sons & Cooke, Ltd. ...	54,605
Token Construction Co., Ltd. ...	54,501
Kirk & Kirk, Ltd.	54,136
Halse & Sons, Ltd.	54,043
Thomas & Edge, Ltd.	53,977
(A) Rice & Son, Ltd.	53,773

Architect's comparable estimate is £50,013.

LONDON CC.—Improvements and major repairs at Addison county prim. and sec. schools at Hammersmith North.

Harrison & Spooner, Ltd.	£25,311
E. J. Lacy & Co., Ltd.	23,915
J. & C. Bowyer, Ltd.	23,177
(A) Sheppard & Short, Ltd. ...	22,574
Dix (Builders) Ltd.	22,380

Architect's comparable estimate is £21,584.

LONDON CC.—168 flats, 60 maisonettes, 29 tenants' stores, 35 garages, parking spaces for 30 cars and an estate workshop, etc., at Dacres-rd. site. G. D. Walford & Ptrs., quantity surveyors.

John Mowlem & Co. Ltd.	£599,915
Y. J. Lovell & Son Ltd.	596,755
Richard Costain Ltd.	579,697
W. J. Simms, Sons & Cooke Ltd. ...	573,778
Gee, Walker & Slater Ltd.	570,968
Wates Ltd.	566,024
Rush & Tompkins Ltd.	562,546
Rowley Bros. Ltd.	561,421
Bernard Sunley & Sons Ltd. ...	559,506
M. J. Gleeson (Contractors) Ltd. ...	555,591
(A) Leslie & Co. Ltd.	554,836

Architect's comparable estimate is £554,443.

LONDON CC.—Adaptation and equipment of office block at Morning-la., Hackney, for use as reception centre for homeless families.

Marshall Andrew & Co. Ltd. ...	£74,725
Walter Lilly & Co. Ltd.	70,981
Gray, Conoley & Co. Ltd.	70,496
Hammond & Miles Ltd.	69,272
C. P. Roberts & Co. Ltd.	68,190
Griggs & Son Ltd.	67,854
(A) Poolman (Builders) Ltd. ...	66,665

Architect's comparable estimate is £69,470.

LONDON CC.—Civil engineering and building work for new pumping station at Nine Elms-la., Battersea, for Rivers and Drainage Com., as stage one of scheme to improve drainage in Heathwall area. *Civil engineering work:—*

John Mowlem & Co. Ltd. ...	£439,148
A. Waddington & Son Ltd. ...	422,230†
The Mitchell Construction Co. Ltd.	388,361
Pauling & Co. Ltd.	378,113
The Demolition & Construction Co. Ltd.	367,484†
Higgs & Hill Ltd.	355,513
Holland & Hannen and Cubitts (Great Britain) Ltd.	352,131†
(RA) Peter Lind & Co. Ltd. ...	346,824†

† After arithmetical correction.

Building Work:—

	Basis A	*Basis B*
The Demolition & Construction Co. Ltd. ...	£75,760	—
(RA) Peter Lind & Co. ...	75,553	—
The Mitchell Construction Co. Ltd.	74,316	76,605
John Mowlem & Co. Ltd....	72,512	72,553
Holland & Hannen and Cubitts (Great Britain) Ltd.	70,341	72,595
Pauling & Co. Ltd.	69,522	72,022
Higgs & Hill Ltd.	68,905	75,341

The chief engineer's comparable estimate for the civil engineering work is £377,550, and the architect's comparable estimate for the building work on basis A is £70,707 and £70,622 on basis B.

LONDON CC.—Pumping plant for new pumping station at Nine Elms-la., Battersea, for Rivers and Drainage Com.

Equipment.—Twelve firms on prescribed list were invited to tender for supply, delivery and erection of pumping plant required for new pumping station and were asked to submit prices on one or more of three bases, each incorporating an alternative type of instrumentation, basis A, an audio-frequency telemetering system, basis B, a scanning system, and basis C, an electronic repeater system. Six tenders were received as follows:

	Basis A	*Basis B*	*Basis C*
Drysdale & Co. Ltd. ...	198,159†	197,444†	196,149†
Sulzer Bros. (London) Ltd.	196,811	195,999	194,808
W. H. Allen Sons & Co. Ltd. ...	191,438	190,703	189,378
Gwynnes Pumps Ltd.	178,266	176,534	175,270
Vickers-Armstrongs (Engineers) Ltd. ...	175,030†	174,293†	173,132†
(A) Pulsometer Engineering Co. Ltd. ...	171,475	170,742	169,415

† After arithmetical correction.

Chief engineer's comparable estimate is £200,000.

(GD) LONDON (Admiralty). — Contracts over £1,000 in value:—*Yorkshire:* Supply and erection of timber feeder poles, Fowler (Contractors) Ltd., Keighley, Yorkshire. *Dunbartonshire:* Demolition of protective walling, Blackburn (Dumbarton) Ltd., Dumbarton. *Hampshire:* Installation of hot water heating and services, Mumford, Bailey & Preston Ltd., Portsmouth. *Devonshire:* Construction of workshop and store, John Garrett & Son Ltd., Plymouth.

(GD) LONDON (Air Ministry).—Contracts to the value of £500 or over for week ended March 4:—*Building work:* Middleton St. George, Co. Durham, Walter Thompson (Contractors) Ltd., North End, Northallerton, Yorks.; Cottesmore, Rutland, Bettles Building Co. Ltd., 80 Alma-rd., Hillfield, Peterborough, Northants; RAF station, Durham, G. Stephenson (Builders and Contractors) Ltd., Chester-st., Bishop Auckland, Co. Durham. *Runway resurfacing:* Wittering, Northants, Wirksworth Quarries Ltd., Bankhse., 286, Pentonville-rd., London, N1. *Heating, hot water supply, steam distribution and ventilation services:* Pergamos, Cyprus, Saunders and Taylor Ltd., Thermair-hse., 97 Chapel-st., Manchester, 3.

(GD) LONDON (Metropolitan Police).—Results of tenders for building works:—Internal redecorations, St. John's Wood Police Station, W. T. Ricketts & Sons Ltd., £758.—Improvements to kennels, West Wickham dog training establishment, E. Orpin & Son Ltd., £1,937.—Internal painting and repairs, Caledonian-rd. police station and married quarters, W. T. Ricketts & Sons Ltd., £1,568.—Internal redecorations, Stoke Newington police station and section house, Druce & Co. (Decorations) Ltd., £2,195.—Attendant works for new prefabricated building and limited internal redecorations, etc., of existing station, Barkingside police station, A. G. Barton & Sons Ltd., £1,665.

(GD) LONDON (MoW).—Contracts placed for week ended February 27:—*Cambridgeshire:* Ministry of Agriculture, Fisheries and Food, Brooklands-ave., Cambridge, heating installation, Wilson Heating and Electrical Ltd., Marston, Cambridge. *East Lothian:* Post Office radio station, Blackcastle Hill, nr. Dunbar, erection, Richard Baillie & Sons Ltd., 55 Market-st., Haddington. *Gloucestershire:* Telephone Exchange, Oriel-rd., Cheltenham, erection, Stone & Co. (Bristol) Ltd., 140c Redland-rd., Bristol, 6. *Lanarkshire:* High temperature materials laboratory, East Kilbride, erection, John Wight & Co. (Edin.) Ltd., Earl's Gate-wks., Grangemouth, Stirlingshire; Parcel Post Office, Waterloo-st., Glasgow, internal decoration, Chisholm (Decorators), Ltd., 701 Sauchiehall-st., Glasgow, C3. *Lancashire:* Hindley Prison, nr. Wigan, erection of laundry machinery, W. & J. Tullis Ltd., Kilbowie-wks., Clydebank, Dunbartonshire; Post Office, sorting office, Littleborough, alterations to sorting office accommodation, E. Taylor & Co. Ltd., Littleborough; Post Office garage and workshop, Eton Hill-rd., Radcliffe, adaptations, Thompson & Brierley Ltd., Union Saw Mills, Boundary-st., Bury. *London:* Old public offices, Whitehall, SW1, repairs stonework, Higgs & Hill Ltd., Crown-wks., South Lambeth-rd., SW8; British Museum, Great Russell-st., WC1, waterproofing of basement, Higgs & Hill Ltd., Crown-wks., South Lambeth-rd., SW8; State visit of President of France, erection and dismantling of masts, etc., John Mowlem & Co. Ltd., 91 Ebury Bridge-rd., SW1. *Middlesex:* Post Office factory, Bilton-way, Brimsdown, Enfield, internal decoration work and cleaning, South London Decorators Ltd., 9/11 Streatham High-rd., SW16; Telephone Exchange, Sunbury-on-Thames, extension, George Moss & Sons Ltd., Cranleigh Wharf, Lady Margaret-rd., Southall; Hampton Court-rd., East Molesey and Bushy Park, Teddington, renewal of culverts, Willment Bros. Ltd., 462 London-rd., Isleworth. *Morayshire:* West Park, High-st., Elgin, clearance of site, A. Falconer & Sons (Contrs.), Ash Grove, Elgin. *Somerset:* Admiralty, Bath, Foxhill and Endsleigh, surface dressing to felt roofing, Ruberoid Co. Ltd., 1 Melrose-ave., Bristol, 8. *Surrey:* Post Office and workshop, Guildford, erection, William Willett Ltd., Sloane-sq., SW1. *Sussex:* Telephone Exchange, Burgess Hill, erection, Rice & Son Ltd., Stephenson-way, Three Bridges. *Warwickshire:* Post Office factory, Fordrough-la., Birmingham, conversion of disused canteen, Charles Twigg (Bldrs.) Ltd., 12/13 Theodore-st., Birmingham, 19; Post Office factory, Garrison-la., Birmingham, new toilets and corridor, David Charles Ltd., 45 Green-la., Birmingham, 9. *Wiltshire:* Head Post Office, 26 Castle-st., Salisbury, alterations, Wort & Way, 37 Castle-st., Salisbury. *Worcestershire:* Post Office, Lion-walk, Worcester, extensions to sorting office, Geo. Harrison & Son (Bldrs.), Ltd., 130 Worcester-rd., Droitwich. *Yorkshire:* Government Buildings, St. George's-rd., Harrogate, internal decoration, A. M. Youngs & Sons, Ltd., 17 Carr Manor Parade, Leeds, 17.

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MANCHESTER 3. 22 Bridge Street
NEWCASTLE-ON-TYNE 1 Pudding Chare
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(GD) LONDON (War Dept.).—Contracts placed for week ended February 26:—*Berkshire:* (Thatcham), building, E. C. Hughes Ltd., Wokingham; (Reading), miscellaneous, H. F. Johnson Ltd., Langley, Bucks. *Dorset:* (West Moors), building, Cooper & Rowe (Contractors) Ltd., Poole. *London:* (SE18), building, CAS (Contractors) Ltd., London W8. *Shropshire:* (Donnington), building, Dudley Boswell & Co. Ltd., Wolverhampton. *Surrey:* (Camberley), miscellaneous, Caffin & Co. Ltd., London WC2. *Yorkshire:* (York), electrical, Vallance Electrical Engineers Ltd., Leeds.

LONDONDERRY.—Reconstruction of 2½ miles of trunk road between Coleraine and Limavady for CC. (A) W. M. Bolton & Sons Ltd. Est. cost £168,585.

MANCHESTER.—Following for City C.—Erection of Royle Green infants' sch. (A) W. Fearnley & Sons (Salford) Ltd.—48 dwellings at Fairbourne-rd., Levenshulme. (A) Sadler & Kinsey Ltd.—Roads and sewers at Wilmslow overspill site. (A) Bethell & Sons Ltd.

MIDDLESBROUGH. — New Thorntree community centre for EC. Needham, Thorpe & White, High Petergate, York, architects. C. E. Peverley, Church-st., York, quantity surveyor. (A) Emco Builders Ltd., North Ormesby, £18,178.—Erection of prim. sch. at Easterside for EC. Ed. A is K. J. Caton. Turner & Townsend, quantity surveyors. Cairns & Byles, constg. engrs. (A) H. & P. W. Skeen, George-st., Thornaby on Tees, £56,368.

MORPETH.—Engineering services at St. George's Hospital for Newcastle Regional Hospital Bd., Benfield-rd., Newcastle on Tyne. (A) Selborne Engineering Co. Ltd., Selborne-gdns., Newcastle on Tyne, £71,908.

NEWBURN.—New clubhouse at Westerhope municipal golf course for UDC. (A) Direct labour, £28,940.

NEWCASTLE ON TYNE.—Extensions at Benton Park-rd. for Ministry of Pensions and National Insurance. (A) Wimpey & Co. Ltd.—Alterations and addition to Byker and Heaton British Legion Club. (A) J. & A. Oliver Ltd., North Seaton-rd., Ashington, Northd., £25,000.—First part (City Treasurer's Block) of new Town Hall at Barras Bridge for City C. G. Kenyon (City A), architect. T. Barrett, Sons & Ptnrs., quantity surveyors. (A) Sir Robert McAlpine & Sons (North-Eastern) Ltd., Jesmond-rd., Newcastle, £2m.

PLYMOUTH.—Erection of Ford sec. mod. sch. for City C. H. J. W. Stirling (County A), architect. Quantities by W. T. Hills & Co. in association with City Architect's dept. (A) Hill & Lang (Plymouth) Ltd., £97,485.

REDCAR.—Proposed sea defence works for TC. (A) Brims & Co. Ltd., City-rd., Newcastle on Tyne, £54,000.

ST. MARYLEBONE.—Internal alterations, partitioning and complete re-decorating to four-storey building at Brock House, Langham-st., W.1, for Automotive Products Co. Ltd. C. W. Townend, architects. (A) Turriff Construction Corpn. Ltd.

ST. MARYLEBONE. — Alterations to operating theatre suite at Middlesex Hospital, W1, for Middlesex Hospital Bd. of Governors. J. C. Morris, architect. Eric G. Lynde & Ptnrs., quantity surveyors. (A) Y. J. Lovell (Bucks) Ltd., Gerrards Cross, £28,863 (negotiated tender).

SOUTH SHIELDS.—Erection of garage, filling station, and showroom at Albemarle-st. for Streamline Garages Ltd. Wetherell, Lamb & Ptnrs., 24 Picton-pl., Newcastle on Tyne, architects. (A) J. Cummings, Matamba-ter., Sunderland.

SUNDERLAND.—Following for CBC:—Extensions and alterations to Southmoor sec. technical sch. for boys. (A) Direct labour, £13,765.—Construction of Monkwearmouth community centre. (A) T. Stewart, £15,950.

WALLSEND.—Office buildings and stores at Tyne View-ter. for Gregson & Co. Ltd., Chirton Trading Estate, North Shields. (A) Direct labour.

WALTHAMSTOW.—Storm water tanks at Low Hall Farm for BC. (A) Howard Farrow Ltd., £77,114.

WEARDALE (Co. Durham).—Proposed sewerage and sewage disposal schemes for Frosterley (South), Eastgate and Roophope for RDC. W. K. Rodwell, 40 North-st., Wetherby, constg. engrs. (A) Direct labour.

WESTMINSTER. — Building works at Marlborough House, as assembly for Commonwealth Prime Ministers, for MoW. (A) Higgs & Hill Ltd., Crown-wks., South Lambeth-rd., SW8, £200,000 (approx.).

WHITEHAVEN.—30 houses at George-st. for BC (A) Gregory Housing Ltd., 21 Farncolmbe-rd., Worthing, Sussex, £47,047.

WORSLEY.—Vehicle repair building and tanker filling canopy at factory of British Oxygen Gases Ltd. (A) J. Gerrard & Sons Ltd., £41,000 (approx.).

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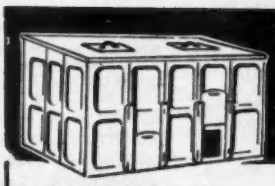

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ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

CONTRACTS

SPENNYMOOR URBAN DISTRICT COUNCIL.

TOWN HALL ALTERATIONS.

Contractors desirous of TENDERING for EXTENSIVE ALTERATIONS TO THE TOWN HALL, Spennymoor, comprising new offices on the ground floor and new public rooms on the upper floors are invited to submit their names to me forthwith and in any event no later than FIRST POST on FRIDAY, 18th MARCH, 1960.

Bills of Quantities will be supplied to firms who have had experience in this class of work, and particulars of such experience should be stated in the application. Details of the work involved will be supplied on request.

W. PEARSE,
Clerk of the Council.

Town Hall,
Spennymoor.
2nd March, 1960.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

TO BUILDING CONTRACTORS.

FOUNDATIONS AND ERECTION OF PREFABRICATED CLASSROOMS AT WENTWORTH HIGH SCHOOL FOR GIRLS, SOUTHEND-ON-SEA.

TENDERS are invited for the performance of works in connection with the proposed CONSTRUCTION OF FOUNDATIONS AND ERECTION OF PREFABRICATED MOVABLE CLASSROOMS AND WORKS INCIDENTAL THERETO at Wentworth High School for Girls, Southend-on-Sea.

R.I.B.A. Conditions of Contract may be inspected, and copies of Form of Tender, Specification and Drawings obtained on and after Wednesday, 16th March, 1960, on application to the Borough Architect, 30 Alexandra-street, Southend-on-Sea.

Sealed Tenders addressed to the undersigned and endorsed "Foundations and Erection of Prefabricated Classrooms—Wentworth High School" are to be delivered to this Office before 3 p.m. on WEDNESDAY, 6th APRIL, 1960, and no Tender received thereafter will be considered.

No Tender will be received except in the special envelope provided, which shall not bear any name or mark indicating the tender.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN,
Town Clerk.

URBAN DISTRICT COUNCIL OF CHESHAM.

EXTERIOR PAINTING OF COUNCIL DWELLINGS.

The above-named Council invite TENDERS for the EXTERIOR PAINTING OF 193 COUNCIL HOUSES AND FLATS, and Contractors may Tender for one or more of the five groups into which these dwellings have been arranged.

The Conditions of Contract, Specification and Form of Tender may be obtained from the Council's Housing Manager, Mr. L. D. Saturley, Cert. S.I.B., A.I.Hsg., M.A.P.H.I., at the Council Offices, Chesham, Bucks, on payment of £1 1s. 0d. which will be refunded upon receipt of a bona fide Tender and the return of the documents.

Tenders should be enclosed in plain, sealed envelopes marked "Exterior Painting—Council Dwellings," and should reach the undersigned by MIDDAY on TUESDAY, 22nd MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. I. NASH,
Clerk of the Council.

Council Offices,
Chesham,
Bucks.

CITY OF ST. ALBANS.

EXTERNAL PAINTING OF COUNCIL HOUSES.

TENDERS are invited for the EXTERNAL PAINTING OF 93 HOUSES, 48 FLATS AND 13 GARAGES.

Specification and Form of Tender may be obtained from the office of the City Engineer and Surveyor, 16 St. Peter's-street, St. Albans, on the payment of a deposit of two guineas which will be refunded upon the receipt of a bona fide Tender not subsequently withdrawn.

The Form of Tender must be returned in the envelope provided not later than NOON, 21st MARCH, 1960, to the undersigned.

The Corporation do not bind themselves to accept the lowest or any Tender.

B. V. ENTWISTLE,
Town Clerk.

38 St. Peter's-street,
St. Albans,
Herts.

BOROUGH OF RUGBY.

PADDLING POOL—RUGBY RECREATION GROUND.

The Corporation invite fixed priced TENDERS for the CONSTRUCTION OF A PADDLING POOL, SHELTER, PUMP-HOUSE and REFRESHMENT KIOSK in Rugby Recreation Ground. The Shelter, Pump-House and Kiosk are to be of brick construction, with a dwarf brick-wall and concrete flag paving surrounding the reinforced-concrete pool.

Form of Tender and Bills of Quantities may be obtained from the Borough Surveyor, Burford House, Rugby, on payment of a deposit of £2 2s. 0d. which will be refunded on receipt of a bona fide Tender and return of all documents. Tenders are to be sealed in the envelope provided and delivered to the undersigned at "The Lawn," Newbold-road, Rugby, by 4th APRIL, 1960.

The Corporation do not undertake to accept the lowest or any Tender.

T. L. DUFFY,
Town Clerk.

BOROUGH OF ACCRINGTON.

ERECTION OF NEW FISH MARKET.

Fixed price TENDERS are invited for the ERECTION OF A NEW FISH MARKET on a site adjoining the Market Hall.

Bills of Quantities, Specification and Form of Tender may be obtained at the office of the Borough Engineer and Surveyor (B. Hartley, B.Sc.(Eng.), A.M.I.C.E., A.M.I.Mun.E., 44 Union-street, Accrington), on payment of a deposit of Two Pounds, which will be returned on receipt of a bona fide Tender. Drawings may be inspected at the Borough Engineer's Office.

Tenders, sealed in envelopes (which will be supplied and which must not bear any mark or name indicating the sender), and endorsed "Tender for Fish Market," must be received by me not later than SATURDAY, the 2nd APRIL, 1960.

JACK GARTSIDE,
Town Clerk.

Town Hall,
Accrington.

CONTRACTS FOR HOSPITAL BUILDING AND ENGINEERING WORKS.

Contractors are invited to apply to be placed on the Management Committee's approved list for building, engineering or electrical works which may be required from time to time at Horton Hospital, Epsom, Surrey.

Apply to the Secretary for Registration Form.

LETCHWORTH URBAN DISTRICT COUNCIL.

EXTENSIONS TO LIBRARY AND MUSEUM.

Contract documents are being prepared in connection with proposed extensions to the Letchworth Library and Museum at Broadway, Letchworth. The works consist of the ERECTION OF A SINGLE-STOREY ADDITION at the rear of the Library, linked with a two-storey addition at the rear of the Museum, of approximately 4,500 sq. ft. of new floor area.

The Council propose to invite Tenders from a selected list of Contractors. Contractors wishing to be considered for inclusion in the list, should apply in writing to the undersigned, not later than 21st MARCH, 1960, indicating what works of a similar nature they have carried out and giving approximate costs.

H. PLINSTON,
Clerk of the Council.

Council House,
Letchworth,
Herts.
2nd March, 1960.

COUNTY BOROUGH OF BOOTLE.

COUNTY GRAMMAR SCHOOL FOR GIRLS, BREEZE HILL.

ALTERATIONS AND ADDITIONS.

Builders and Contractors desirous of TENDERING for ALTERATIONS AND ADDITIONS TO THE ABOVE SCHOOL are invited to send in their names and addresses to the Borough Surveyor, Town Hall, Bootle 20, Lancs, enclosing a deposit of £2 2s. 0d. The deposit will be returned on receipt of a bona fide Tender or on the return of the documents. Drawings are available for inspection at the Borough Surveyor's Office.

Tenders must be submitted to the undersigned not later than 10 a.m. on FRIDAY, the 25th MARCH, 1960.

H. PARTINGTON,
Town Clerk.

BOROUGH OF BASINGSTOKE.

SOUTH HAM ESTATE, BASINGSTOKE.

TENDERS are invited for the ERECTION OF A TOTAL OF 223 DWELLINGS, comprising TWO- AND THREE-STOREY FLATS, HOUSES AND BUNGALOWS, and 126 GARAGES. The scheme, which includes part of the Council's proposals of Expansion in conjunction with the L.C.C., is situated on two sites, half a mile apart, and known as:

(1) 32nd Instalment: comprising 72 DWELLINGS AND 72 GARAGES.
(2) 33rd Instalment: comprising 151 DWELLINGS AND 54 GARAGES.

The 32nd Instalment is to be let as one contract, but the 33rd Instalment can be divided into groups as shown below, and may be let in whole or in part:

Group "A." 63 Dwellings and 15 Garages.
Group "B." 52 Dwellings and 34 Garages.
Group "C." 13 Dwellings.
Group "D." 17 Dwellings and 5 Garages.
Group "E." 6 Dwellings.

Forms of Tender, Bills of Quantities, and General Conditions of Contract may be obtained from the Borough Architect, Eric Almond, Dipl.Arch., A.R.I.B.A., Municipal Buildings, Basingstoke, on payment of a deposit of £2 2s., which will be returned on receipt of a bona fide tender.

Tenders are to be returned to the undersigned by noon on the 1st APRIL, 1960.

The Council do not bind themselves to accept the lowest or any tender.

L. WOMERSLEY,
Town Clerk.

ST. HELENS EDUCATION COMMITTEE.

TENDERS FOR BUILDING WORK.

TENDERS are invited for ALTERATIONS TO THE LAVATORY, CLOAKROOM AND STORAGE ACCOMMODATION at Parr Flat Junior School, Brunswick-street, St. Helens.

Applications to tender should be submitted to the Architects, Messrs. Gornall, Kelly & Partners, 155 The Albany, Old Hall-street, Liverpool, not later than NOON on 19th MARCH, 1960. Drawings and Conditions of Contract may be seen at the Architect's office.

Tenders, sealed in the special envelope provided, should be returned to the Town Clerk, Town Hall, St. Helens, by NOON on MONDAY, 18th APRIL, 1960.

N. F. NEWBURY,
Director of Education.

Education Office,
St. Helens.
2nd March, 1960.

CITY OF WORCESTER.

RE-ADVERTISEMENT.

ERECTION OF 65 DWELLINGS. MOOR-STREET REDEVELOPMENT AREA.

TENDERS are invited for the ERECTION OF THESE DWELLINGS, comprising ONE- AND TWO-BEDROOM FLATS IN THREE STOREYS, BED-SITTING ROOM FLATS IN TWO STOREYS AND OLD PEOPLE'S BUNGALOWS.

Documents obtainable from City Engineer and Surveyor, 22 Bridge-street, Worcester, on deposit of three guineas (cheques payable to "Worcester Corporation") which will be refunded after receipt of bona fide Tender and the return of Tender documents.

Tenders to be posted to the undersigned to arrive not later than MONDAY, 4th APRIL, 1960.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

CITY OF SALFORD.

PROPOSED 339 (15-STOREY) FLATS AND 28 (4-STOREY) MAISONETTES AT ST. MATTHIAS CLEARANCE AREA NO. 2 (PART 1), SILK-STREET SITE, SALFORD, 3.

FIRM-PRICE TENDERS are invited for the CONSTRUCTION OF 339 FLATS in three fifteen-storey blocks and 28 MAISONETTES in three four-storey blocks, together with services, roads, paths and landscaping, at St. Matthias Clearance Area No. 2 (part 1), Silk-street, Salford, 3.

Conditions of Contract and Drawings may be inspected at, and Bills of Quantities and Form of Firm-Price Tender obtained from, The City Engineer and Surveyor's Department, Town Hall, Salford, 3, on payment of a deposit of £5 5s., which will be returned on submission of a bona fide Firm-Price Tender not subsequently withdrawn.

Firm-Price Tenders on the prescribed form, sealed in the envelope provided and bearing no other mark or identification, must be forwarded to the undersigned so as to be received not later than 10 a.m. on FRIDAY, 1st APRIL, 1960.

The Council does not bind itself to accept the lowest or any Firm-Price Tender.

R. RIBBLESDALE THORNTON,
Town Clerk.

LEEDS REGIONAL HOSPITAL BOARD.

TO BUILDING CONTRACTORS.

Fixed Price TENDERS are invited for carrying out ALTERATIONS TO THE LAUNDRY at Southmoor Hospital, Hemsworth.

Applications for Form of Tender and Bills of Quantities accompanied by a deposit of £2 2s. 0d. (which will be refunded on receipt of a bona fide Tender and other contract documents) must be made to the Architect to the Board at the undermentioned address not later than 12 NOON on WEDNESDAY, 16th MARCH, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of the Architect to the Board, or at the office of Messrs. Kitson, Parish, Ledgard and Pyman, Chartered Architects, Lloyds Bank Chambers, Vicar-lane, Leeds.

Sealed Tenders in the endorsed envelope provided, must be delivered to the undersigned not later than 12 NOON on THURSDAY, 7th APRIL, 1960.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,
Secretary to the Board.

Park-parade,
Harrogate,
Yorks.

THE RURAL DISTRICT COUNCIL OF GODSTONE.

TWELVE UNITS—KINGS CROSS-LANE, SOUTH NUTFIELD.

TENDERS are invited for the ERECTION OF 4 BLOCKS OF 12 UNITS TOTAL, all in two storeys, at South Nutfield, Surrey, comprising ONE BLOCK OF 4 FLATS, TWO BLOCKS EACH OF 3 HOUSES, and ONE PAIR OF HOUSES.

Bills of Quantities, Conditions of Contract and Form of Tender may be obtained on application to the Council's Engineer and Surveyor at the Council Offices, Oxted, Surrey, on payment of a deposit of Two Guineas, which will be returned on receipt of a bona fide Tender and the return of all documents supplied.

Drawings may be inspected at the office of the Engineer and Surveyor during normal office hours.

Sealed Tenders, enclosed in a plain envelope endorsed "Tender for Twelve Units, Kings Cross-lane, South Nutfield," and addressed to the Clerk of the Council, Council Offices, Oxted, must be delivered not later than NOON on WEDNESDAY, 6th APRIL, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

M. HAWORTH,
Clerk of the Council.

Council Offices,
Oxted, Surrey.
23rd February, 1960.

COUNTY BOROUGH OF CROYDON.

TENDERS are invited for EXTERNAL PAINTING OF COUNCIL HOUSES (against priced schedules). Particulars from Housing Manager, 71 Park-lane, Croydon, on payment of one guinea which will be returned on receipt of a bona fide Tender. Tenders must reach me by noon on FRIDAY, 25th MARCH, 1960.

E. TABERNER,
Town Clerk.

BOROUGH OF SCUNTHORPE.

NEW MUNICIPAL OFFICES AND COUNCIL SUITE.

(a) HEATING AND VENTILATING INSTALLATIONS.
(b) HOT AND COLD WATER SERVICES.

The Council invite Contractors, possessing a substantial organisation, willing to submit a FIRM PRICE TENDER for EITHER OR BOTH OF THE ABOVE SERVICES, to forward their names to the undersigned not later than 16th MARCH, 1960.

Applications should contain an assurance that the applicant has the necessary financial and material reserves and organisation to undertake the work. Evidence of this should accompany their application together with a list of works recently carried out.

The Council reserve the right to select from the applicants, a list of firms who will be invited to submit Tenders and does not bind itself to accept the lowest or any Tender.

The work consists of a MUNICIPAL OFFICE BLOCK OF 5 STOREYS, having a total area of 51,900 sq. ft., the COUNCIL SUITE OF 2 STOREYS with a total area of 10,400 sq. ft.

The period of the Main Contract will be 2 years and commenced 1st FEBRUARY, 1960.

Specification and drawings for these services have been prepared by the Consulting Engineers, Messrs. R. W. Gregory and Partners, 1 Brazennose-street, Manchester. The Architects for the scheme are Messrs. C. B. Pearson & Son, Lancaster.

T. M. LISTER,
Town Clerk.

Municipal Offices,
34 High-street,
Scunthorpe.

BOROUGH OF STRATFORD-UPON-AVON.

IMPROVEMENTS AND REPAIRS TO PRE-WAR COUNCIL HOUSES ON CLOPTON ESTATE.

CONTRACT No. 3—95 HOUSES.

TENDERS are invited from experienced Building Contractors for this scheme of comprehensive improvements and repairs.

The Contract will be a FIXED PRICE CONTRACT.

Applications to tender must reach me by not later than MONDAY, 21st MARCH, 1960, together with a deposit of £2 2s. 0d. which will be returned on the receipt of a bona fide tender.

Drawings may be inspected at the office of the undersigned.

Forms of tender, specification and other relevant documents together with date of submission of tenders will be forwarded when ready to Contractors making application to tender.

The Council do not bind themselves to accept the lowest or any tender.

F. C. SMART, M.I.C.E., M.I.Mun.E.,
Borough Engineer and Surveyor.

Borough Engineer's Office,
Municipal Offices,
Stratford-upon-Avon.
2nd March, 1960.

METROPOLITAN BOROUGH OF DEPTFORD.

TENDERS are invited from established painting contractors for the EXECUTION OF EXTERNAL REDECORATION WORKS TO COUNCIL DWELLINGS. Specification, Conditions of Contract and full particulars may be obtained from the Borough Engineer, Deptford Town Hall, New Cross, S.E.14.

Tenders, when completed, must be returned to the undersigned in the envelope provided not later than 4 p.m. on MONDAY, 4th APRIL, 1960. The Council reserves the right to allocate sections of work to two or more contractors who must be prepared to carry out the work at the prices Tendered.

ERNEST FIELD,
Town Clerk.

LITTLEHAMPTON URBAN DISTRICT COUNCIL.

WICKBOURNE ESTATE—CONTRACT No. 24.

ONE BLOCK OF 6 TYPE 'M' HOUSES, HELYERS GREEN.

TENDERS are invited for the ERECTION OF ONE BLOCK OF 2-TWO BEDROOM and 4-THREE BEDROOM HOUSES.

Tender documents, including Bills of Quantities, may be obtained from the Engineer and Surveyor on receipt of a deposit of £2 2s. 0d., returnable on submission of a bona fide tender.

Tenders must reach me not later than noon on WEDNESDAY, 23rd MARCH, 1960.

D. WILLOUGHBY,
Clerk of the Council.

Council Offices,
Littlehampton.

NESTON URBAN DISTRICT COUNCIL.

ERECTION OF 50 DWELLINGS, CLAYHILL ESTATE, NESTON.

(Re-printed from issue dated 19th February, 1960, with revised date for receipt of Tenders.)

TENDERS are invited for the ERECTION OF 50 DWELLINGS on the Clayhill Housing Estate, Liverpool-road, Neston.

Plans may be inspected by appointment at the office of the Architect, Mr. S. Colwyn Foulkes, Merton-place, Pwllycrochan-avenue, Colwyn Bay, North Wales (Tel.: Colwyn Bay 2735), from whom the Specification, Bills of Quantities and Form of Tender may be obtained. The plans may also be inspected at the office of the Council's Engineer/Surveyor, Town Hall, Neston, Wirral, Cheshire.

Tenders, in plain sealed envelopes endorsed "Houses—Clayhill" should be received by the undersigned not later than THURSDAY, 31st MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. H. D. HARTMAN,
Clerk of the Council.

Town Hall,
Neston,
Wirral.

COUNTY BOROUGH OF WALLASEY.

EXTERNAL PAINTING OF COUNCIL PROPERTIES.

TENDERS to reach the undersigned by the 21st APRIL, 1960, are invited for the EXTERNAL PAINTING OF 886 DWELLINGS AND 10 GARAGES. The works have been divided into five sections of varying numbers of dwellings and tenders can be submitted for any or all of the sections. Specification and form of tender available from the Borough Architect, Town Hall, Wallasey.

A. G. HARRISON,
Town Clerk.

COUNTY BOROUGH OF READING.

TO BUILDING CONTRACTORS.

FIRM PRICE TENDERS are invited for the ERECTION OF 118 DWELLINGS AND 52 GARAGES, Bulmershe Estate, near Reading. General Conditions and drawings may be inspected and Bills of Quantities, etc., obtained from the Borough Architect, Town Hall, Reading, on application to him, accompanied by a cheque for £2 2s. (made payable to the Reading Corporation) which will be refunded on receipt of a bona fide tender not subsequently withdrawn. Tenders to Town Clerk, Town Hall, Reading, by noon, 8th APRIL, 1960. No tender considered unless enclosed in the endorsed envelope provided which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any tender.

BOROUGH OF WARWICK.

PERCY ESTATE CENTRAL AREA—SITE "A."

ERECTION OF HOUSES AND BUNGALOWS.

TENDERS are invited for the CONSTRUCTION OF
19 3-BEDROOM 2-STOREY UNITS
12 1-STOREY BEDSITTINGROOM UNITS
5 1-STOREY 1-BEDROOM UNITS
LAUNDRY BLOCK, ACCESS ROAD AND 9 BRICK GARAGES.

Copies of the Bills of Quantities, General Conditions, and Form of Tender will be available as from the 22nd MARCH, 1960, which may be obtained from the undersigned on payment of £2 2s. deposit, which will be refunded upon receipt of a bona fide Tender. Drawings may be seen at this Office during normal working hours.

Tenders, in plain sealed envelope endorsed "Percy Estate Central Area—Site "A"" must reach the undersigned not later than FIRST POST on FRIDAY, 15th APRIL, 1960.

HECTOR SETON BROWN,
A.M.I.C.E., A.M.I.W.E.,
Borough Engineer and Surveyor.

23 Jury-street,
Warwick.
1st March, 1960.
WLC/ASC

COUNTY BOROUGH OF SOUTHPORT.

The Council invite TENDERS for the following Sub-Contracts in connection with the NEW HOME FOR THE AGED at Aimsdale.

1. ELECTRICAL INSTALLATION.
2. HEATING INSTALLATION, INCLUDING VENTILATION AND HOT AND COLD DOMESTIC SERVICES.
3. LIFT INSTALLATION.
4. STAIRCASE BALUSTRADING.

Contractors interested in Tendering should inform the Borough Architect and Town Planning Officer, 99-105 Lord-street, not later than 31st MARCH, and enclose one guinea for each contract applied for.

Specifications will be forwarded when ready.

ST. PIUS X ROMAN CATHOLIC PRIMARY SCHOOL.

Applications are invited by the Clifton Catholic Diocesan Schools Commission from Building Contractors wishing to be considered for inclusion in the list of TENDERERS for the ERECTION OF THIS SCHOOL OF 320 PLACES.

The construction is traditional with brick walls, wood floors and roofs. Bills of Quantities will be ready on 5th April, 1960. Receipt of Tenders required on the 26th April, 1960, for immediate start and the work is to be completed by April next year, i.e. 11 months' contract. The Commission is only prepared to consider Tenders from firms of proved experience and ability, and capable of carrying out the work within the period mentioned.

Applications for inclusion in the list from which firms will be selected should be submitted to the architects, Burrough & Hannam, F.R.I.B.A., Chartered Architects, Bedford House, 23 Richmond Hill, Bristol, 8, not later than 10 a.m. on TUESDAY, 15th March, 1960.

EAST SUSSEX COUNTY COUNCIL.

"THE YEWS," HAYWARDS HEATH.

CONVERSION TO HOME FOR ADOLESCENTS.

TENDERS are invited for MINOR ALTERATIONS INCLUDING RE-DECORATIONS TO THE ABOVE PROPERTY.

Contractors wishing to Tender should apply before 18th MARCH, 1960, to the County Architect, County Hall, Lewes.

Selected Contractors will be provided with specification and Tender documents on 29th March, 1960.

WELWYN RURAL DISTRICT COUNCIL.

TRADITIONAL GARAGES.

TENDERS are invited for the ERECTION OF 16 TRADITIONAL GARAGES WITH TARMAC FORECOURT at Queensway Estate, Welwyn. Plan, specification, General Conditions and Form of Tender may be obtained from the Council's Surveyor, on payment of a deposit of £2 2s. 0d. which sum will be returned on receipt of a bona fide Tender, not subsequently withdrawn.

Tenders must be delivered to the undersigned not later than 12 NOON on the 6th APRIL, 1960, in plain sealed envelopes endorsed "Queensway Garages."

The Council do not bind themselves to accept the lowest or any Tender.

H. STUTCHBURY,
Clerk of the Council.

Council Offices,
Welwyn,
Herts.
11th March 1960.

EAST SUSSEX COUNTY COUNCIL.

FURZE HOUSE, FLIMWELL.

TENDERS are invited for RE-SLATING ROOFS AT THE ABOVE HOME FOR THE AGED.

Contractors wishing to Tender should apply before 18th MARCH 1960, to the County Architect, County Hall, Lewes.

Selected Contractors will be provided with specification and Tender documents on 1st April, 1960.

LEEDS REGIONAL HOSPITAL BOARD.

TO BUILDING CONTRACTORS.

FIXED-PRICE TENDERS are invited for carrying out IMPROVEMENTS to the MASS RADIOGRAPHY UNIT, at Baker-street, Hull.

Applications for Form of Tender and Bills of Quantities, accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona fide tender and other contract documents) must be made to the Architect to the Board at the undermentioned address not later than 12 noon on TUESDAY, 15th MARCH, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board," and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of the Architect to the Board, or at the office of Messrs. Gelder and Kitchen, F./L./A.R.I.B.A., Chartered Architects, 120 Alfred Gelder-street, Hull.

Three weeks will be allowed for tendering.

The Board does not bind itself to accept the lowest or any tender.

Wm. A. SHEE,
Secretary to the Board.

Park Parade,
Harrogate,
Yorks.

URBAN DISTRICT OF CRAWLEY.

HOUSING CONTRACT.

ERECTION OF 82 DWELLINGS.

The Council propose to invite TENDERS for the ERECTION OF 82 DWELLINGS on land north of Brewer-road, Southgate, Crawley, under the supervision of H. H. Clark, Esq., F.R.I.B.A., 3-4 Clement's Inn, London, W.C.2, and are preparing a list of selected contractors.

Contractors who wish to be considered for inclusion in the list are asked to send their names to me not later than 21st MARCH, 1960. Contractors will be selected and the Council may add others.

R. W. J. TRIDGELL,
Clerk of the Council.

Robinson-house,
Robinson-road,
Crawley,
Sussex.
10th March, 1960.

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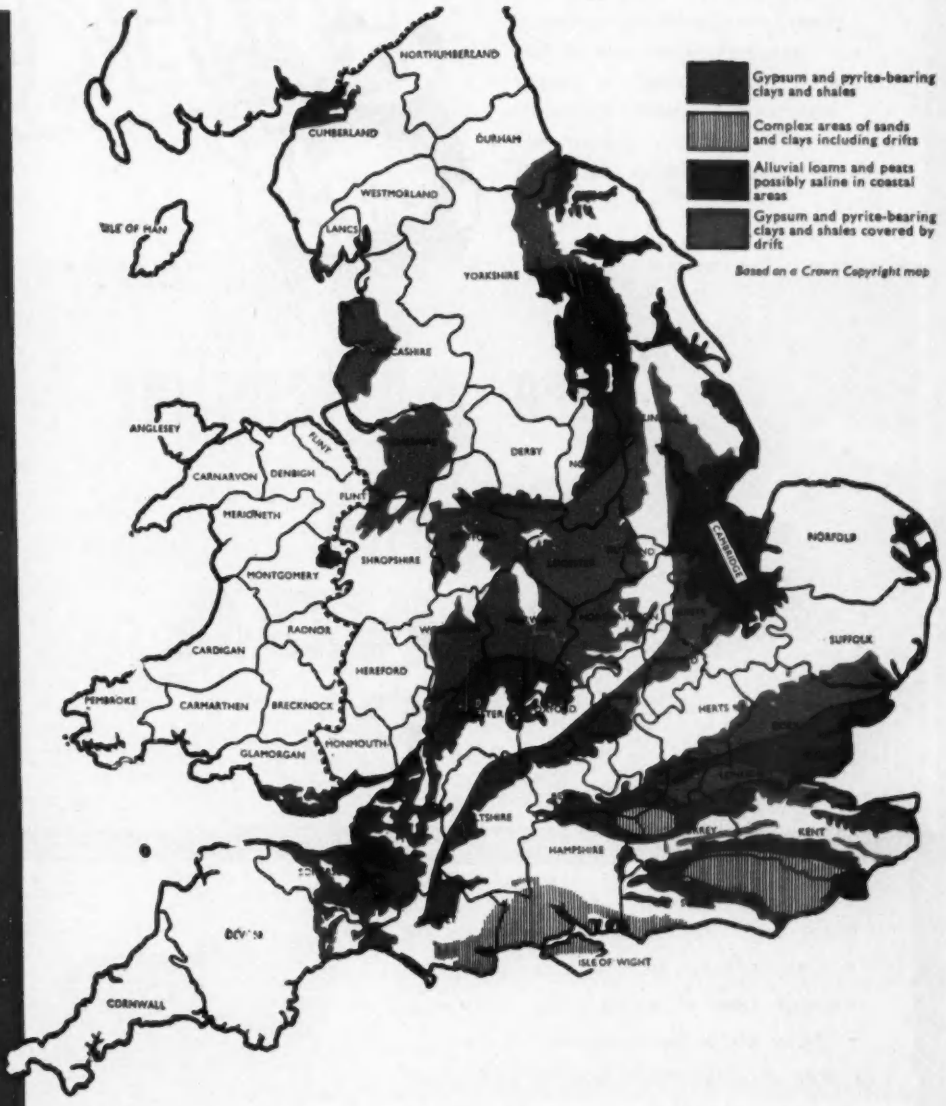
BK 579



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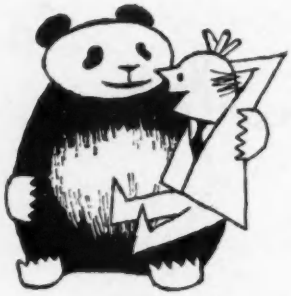

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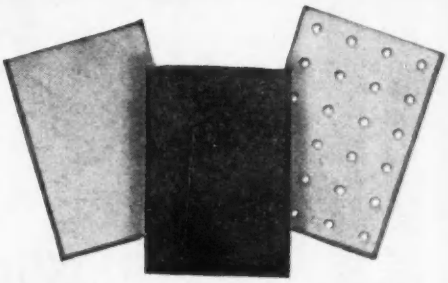

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COSELEY

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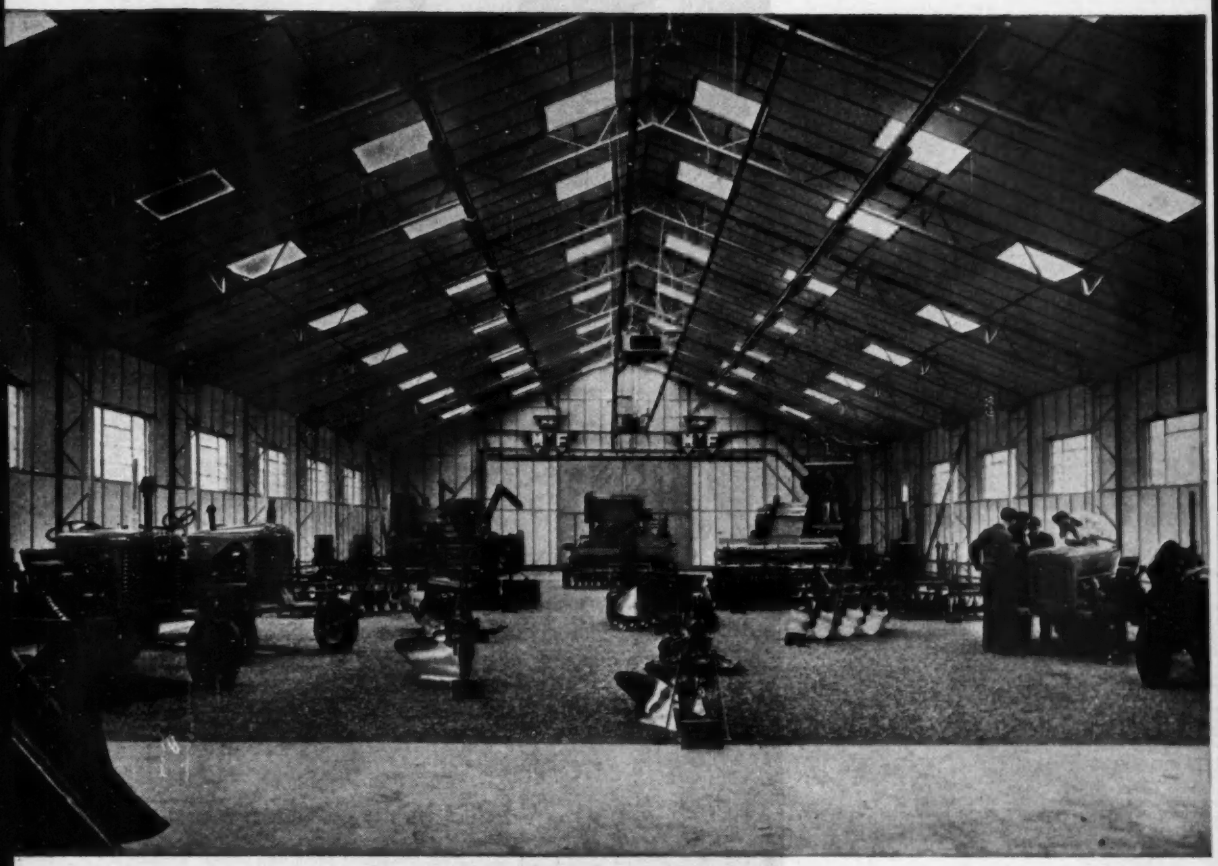
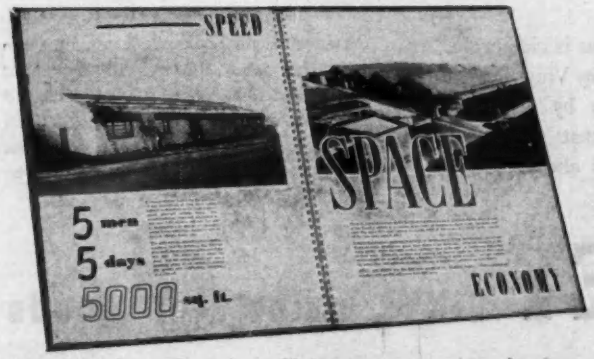


economy with quality



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LEEDS REGIONAL HOSPITAL BOARD.

TO BUILDING CONTRACTORS.

FIXED PRICE TENDERS are invited for carrying out ALTERATIONS TO PAVILION BLOCK 12, at Scotton Banks Hospital, Knaresborough.

Applications for Form of Tender and Bills of Quantities accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona fide Tender and other contract documents) must be made to the Architect to the Board at the undermentioned address not later than 12 NOON on TUESDAY, 15th MARCH, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of the Architect to the Board (or at the office of Messrs. Jackson & Calvert, Chartered Architects, 3 Raglan-street, Harrogate).

Three weeks will be allowed for tendering.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,
Secretary to the Board.

Park-parade,
Harrogate,
Yorks.

BOROUGH OF SWINDON.

EXTERIOR RE-PAINTING OF APPROXIMATELY 600 COUNCIL HOUSES.

TENDERS are invited from painting contractors for the above work at the Walcot Estate, Swindon.

Contract Documents and Form of Tender may be obtained from the Borough Architect, Civic Offices, Swindon.

The Council does not bind itself to accept the lowest or any tender.

Sealed tenders, endorsed "Painting 1960," should be delivered to the undersigned not later than 21st MARCH, 1960.

D. MURRAY JOHN,
Town Clerk.

Civic Offices,
Swindon.
2nd March, 1960.

RIPLEY URBAN DISTRICT COUNCIL.

REPLACEMENT OF METAL WINDOW FRAMES.

TENDERS, to be delivered to the undersigned at Town Hall, Ripley, Derby, by the 2nd APRIL, 1960, in plain sealed envelopes endorsed "WINDOW FRAMES," are invited for the removal of all metal framed windows in 52 Council Houses and replacement with window frames of wooden construction. Details may be obtained from Mr. H. Hillier, Surveyor, Town Hall, Ripley, Derby. The Council does not bind itself to accept the lowest or any Tender.

DAVID R. PERRY,
Clerk of the Council.

CUMBERNAULD DEVELOPMENT CORPORATION.

TWO SINGLE-STOREY STANDARD FACTORIES. BLAIRLINN SITE. EACH PROVIDING APPROXIMATELY 18,400 SQUARE FEET OF PRODUCTION AREA AND 3,700 SQUARE FEET OF ADMINISTRATION AREA.

Contractors wishing to TENDER for the ERECTION COMPLETE of the above are invited to submit their names to the Chief Architect and Planning Officer, Cumbernauld Development Corporation, Cumbernauld-house, Cumbernauld, Glasgow, not later than TUESDAY, 15th MARCH, 1960.

The concrete ground slab, walling, plumbing, electrical installation, decorating, external works and drainage will be executed by the main contractor.

The structural steel frame, roof deck, metal windows and patent glazing and heating installation will be executed by nominated sub-contractors.

Schedules of Quantities will be available at an early date.

The Corporation reserve the right to select the Main Contractors to whom contract documents will be issued.

HUNTINGDONSHIRE CHILDREN COMMITTEE.

FAMILY GROUP HOME, ST. NEOTS.

FIXED PRICE TENDERS are invited for the ERECTION OF A FOUR-BEDROOMED FAMILY GROUP HOME of traditional construction with load bearing brick walls and concrete strip foundations.

Drawings may be inspected and Bills of Quantities and Forms of Tender will be available from FRIDAY, 25th MARCH, 1960, and may be obtained from S. M. Holloway, A.R.I.B.A., County Architect, County Buildings, Huntingdon.

Sealed Tenders in the endorsed envelope provided, with no other identification marks, must be delivered by 12 NOON on FRIDAY, 15th APRIL, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. C. AYLWARD,
Clerk of the County Council.

County Buildings,
Huntingdon.

CUMBERNAULD DEVELOPMENT CORPORATION.

FOUR-STOREY MAISONETTE BLOCK AND THREE-STOREY FLATTED FACTORY.

SEAFAR 1 SITE.

Contractors wishing to TENDER for the ERECTION COMPLETE of the above are invited to submit their names to the Chief Architect and Planning Officer, Cumbernauld Development Corporation, Cumbernauld-house, Cumbernauld, Glasgow, not later than TUESDAY, 15th MARCH, 1960.

The maisonette block contains 30 dwellings, laundry, drying rooms, one shop and community rooms, is of brick cross-wall construction with concrete perimeter beams with brick infill panels, precast concrete suspended floors, and flat roof, together with plumbing, electrical installation, joinery, plastering and decorations, external works and drainage.

The flatted factory will provide 9,700 (approximately) square feet of production area and 2,850 (approximately) square feet of circulation and toilet area, with 4 lock-up garages and transformer house in addition.

The factory is to be an *in-situ* reinforced concrete framed building with metal infill panels and block walling, metal windows, *in-situ* reinforced concrete floors and staircases, flat roof, and includes plumbing, electrical and decorating works, external works and drainage.

Separate Schedules of Quantities and Forms of Tender for each of the above will be available at an early date.

The Corporation reserve the right to select the main contractors to whom contract documents will be issued.

URBAN DISTRICT OF MERTON AND MORDEN.

PROPOSED BLOCKS OF FLATS IN ABBEY-ROAD/NELSON GROVE-ROAD, MERTON.

The development consists of 48 FLATS IN TWO 3-STOREY BLOCKS. A panel is being prepared of contractors who will be supplied with Bills of Quantities for tendering for the erection of the above. Builders wishing to be considered for inclusion on this panel should write to the Architect for the development, Mr. William Ryder, A.R.I.B.A., A.M.T.P.I., Dip.T.P.(Lond.), 21 Bruton-street, Berkeley-square, London, W.1, not later than FRIDAY, 25th MARCH, 1960, giving particulars of recent contracts completed and the names of two or more technical referees.

SYDNEY ASTIN,
Clerk of the Council.

Morden Hall,
S.W.19.
March, 1960.

SUFFOLK AND IPSWICH FIRE AUTHORITY.

BURY ST. EDMUNDS FIRE STATION.

Building Contractors wishing to TENDER for work in the UNDERPINNING AND REBUILDING OF ONE SECTION of this station should apply to the Architect to the Authority, Mr. E. J. Cundliffe, A.R.I.B.A., at the County Hall, Ipswich, before the 22nd MARCH, 1960.

A deposit of two guineas is required on application (cheques payable to Suffolk and Ipswich Fire Authority) and will be returned on receipt of a bona fide Tender.

Plans can be seen at County Hall, Ipswich, or at the Fire Station, Bury St. Edmunds, between the hours of 9 a.m. and 5 p.m. Specifications and Drawings will be sent out on 28th MARCH, for Tenders required by the 11th APRIL, 1960.

CITY OF BELFAST.

ERECTION OF TWO TOWER BLOCKS OF FLATS, EACH THIRTEEN STORIES IN HEIGHT AT THE NORTH QUEEN-STREET DEVELOPMENT SCHEME (VICTORIA BARRACKS).

The City Council propose to invite TENDERS for the first section of the above scheme which initially comprises two tower blocks of flats each thirteen storeys in height. The full scheme projected ultimately includes further similar tower blocks in addition to eight and four storey slab blocks of maisonettes and traditional houses.

Contractors, possessing a well equipped organisation and experienced in the erection of multi-storey buildings of reinforced concrete construction, wishing to be considered for inclusion on a selected list for the first contract should submit their names, together with details of such organisation and of their experience in such work, to the undersigned before 12 NOON on MONDAY, 28th MARCH, 1960.

If further information is required, this may be obtained on application to the Housing Architect, 97 Townsend-street, Belfast, 13.

JOHN DUNLOP,
Town Clerk.

P.O. Box No. 234,
City Hall,
Belfast, 1.

SAFFRON WALDEN RURAL DISTRICT COUNCIL.

FOUR FLATS—WIMBISH.

TENDERS are invited for the ERECTION OF FOUR FLATS at Wimbish.

Bills of Quantities and Forms of Tender can be obtained from the Clerk of the Council, Council Offices, Debden-road, Saffron Walden, Essex.

The Council do not bind themselves to accept the lowest or any tenders.

Tenders, suitably endorsed, must reach the undersigned not later than SATURDAY, the 9th APRIL, 1960.

A. W. OVERALL,
Clerk of the Council.

9th March, 1960.

METROPOLITAN BOROUGH OF GREENWICH.

Applications are invited from those willing to tender for the ERECTION of a NEW CLEANSING STATION and for IMPROVEMENTS AND EXTENSIONS TO EXISTING WORKSHOP, GARAGE AND WELFARE BUILDINGS, all at the Council's Tunnel-avenue Depot.

Plans may be inspected and other particulars obtained at the office of the Borough Engineer and Surveyor at the Town Hall.

Selected applicants will be notified by post and will be supplied with Bills of Quantities and other documents required to enable them to tender.

Tenderers will be required to sign, or to refuse to sign, a certificate declaring that they are not parties to any scheme or arrangements with other tenderers in respect of the amount of or the adjustment of their Tender. The full wording of the certificate may be obtained from the undersigned.

Applications must reach the Borough Engineer and Surveyor at the Town Hall by noon on 24th MARCH, 1960, and must include details of similar work undertaken recently.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
March, 1960.

CITY OF LIVERPOOL.

WATER DEPARTMENT.

RIVER DEE SUPPLY.

TENDERS invited for CONSTRUCTION OF RIVER INTAKE AND PUMPING STATION (floor area 5,400 sq. ft.) and HIGH LIFT PUMPING STATION (floor area 27,700 sq. ft.) at Huntington near Chester.

Documents from Water Engineer, 55 Dale-street, Liverpool, 2, from 22nd March, 1960. (Deposit £5, payable City Treasurer.)

Tenders returnable by 11th APRIL, 1960.

THOMAS ALKER,
Town Clerk.

(J.6075.)

WEDNESFIELD URBAN DISTRICT COUNCIL.

ASHMORE PARK NEIGHBOURHOOD CENTRE—PHASE II.

The Council invite TENDERS for the ERECTION of the 2nd Phase of the Ashmore Park Neighbourhood Centre consisting of 14 SHOPS WITH 14 MAISONETTES OVER, 1 BRANCH LIBRARY WITH 2 FLATS OVER, PUBLIC CONVENIENCES and 22 GARAGES.

Applications for the Conditions and Bills of Quantities should be made to the Council's Engineer and Surveyor, Thos. A. Peacock, M.I.Mun.E., 29 Bolton-road, Wednesfield, Staffs., by the 18th MARCH, 1960, enclosing a deposit of £3 3s. payable to the Wednesfield Urban District Council which will be returned on receipt of a bona fide Tender not subsequently withdrawn or the return of all documents.

Tenders, in envelope provided, endorsed "Ashmore Park Estate, Neighbourhood Centre Phase II," should be returned to the undersigned not later than 12 NOON on MONDAY, 25th APRIL, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. HEYWOOD JONES,
Clerk of the Council.

Council Offices,
Alfred Squire-road,
Wednesfield,
Staffs.

COUNTY COUNCIL OF ESSEX.

ALTNACEALGACH ESTATE, PARK-ROAD, COLCHESTER.

DRAINAGE SCHEME.

Contractors wishing to submit a FIRM-PRICE TENDER for the above should forward their names, from which a panel will be chosen and provided with tender documents.

The work consists of laying a 9-inch diameter soil sewer pipe approximately 21 feet deep, part open cut and part tunnel with three manholes, for a length of about 125 yds. run.

Applications to reach the undersigned not later than WEDNESDAY, 16th MARCH, 1960.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

PUBLIC APPOINTMENTS

METROPOLITAN BOROUGH OF SOUTHWARK.

Applications are invited for the following appointments in the Borough Engineer and Surveyor's Department:—

ARCHITECTURAL ASSISTANTS. A.P.T. I (£640 to £795 p.a.) or A.P.T. II (£795 to £910 p.a.). Vacancies in design groups dealing with mixed housing and other development. Applicants should possess Intermediate R.I.B.A. for A.R.T. II.

If under 26 years of age, the salaries will be £10 per annum less.

The Council has a large programme for housing development on sites already available, or scheduled for clearance within the next ten years. In addition, a number of public building projects are envisaged, including new public baths within the Elephant and Castle Development Area.

Applicants are requested to attach to their application forms, in typescript if preferred, brief details of their experience, particularly under the following headings:—

(a) housing schemes
(b) public buildings
(c) other buildings
(d) office organisation
(e) site supervision.

Please indicate clearly the post and grade applied for.

Council's Conditions of Service of Officers and Superannuation Scheme apply. Medical examination. No housing. Canvassing will disqualify. Further particulars from the undersigned. Closing date 30th MARCH, 1960.

E. J. PITT,
Town Clerk.

Southwark Town Hall
(Near Elephant & Castle Underground Station),
Walworth-road,
S.E.17

COUNTY OF DURHAM.

APPOINTMENT OF COUNTY ARCHITECT.

Applications are invited for the post of COUNTY ARCHITECT. Candidates must be Fellows or Associates of the Royal Institute of British Architects and preference will be given to those having had experience under large public authorities.

The salary will be £3,740 a year, rising by three annual increments of £135 to a maximum of £4,145. Superannuation deductions. Medical examination. Applications, stating age, education, qualifications, experience and present appointment, with the names and addresses of two referees, must be received by me not later than noon on 28th MARCH, 1960.

Personally canvassing the members of the Council is prohibited.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

SCOTTISH QUANTITY SURVEYORS ASSISTANTS.

DO YOU WANT TO WORK IN ENGLAND IN A GOVERNMENT DEPARTMENT WITH GOOD OPPORTUNITIES AND PROMOTION PROSPECTS?

If so, and you have passed either the FIRST or INTERMEDIATE examinations of the Royal Institute of Chartered Surveyors and are eligible to sit the next examination in the Quantity Surveying Section, WRITE IMMEDIATELY to: The Chief Quantity Surveyor, Works Directorate, The War Office, Chessington, Surrey for application forms and further particulars of the

FREE FULL-TIME NON-RESIDENTIAL TRAINING COURSE IN ENGLISH QUANTITY SURVEYING PRACTICE to be held from 30th May, 1960, to 30th July, 1960, at THE COLLEGE OF ESTATE MANAGEMENT, LONDON.

Salaries ranging from £402 at age 19 to £900 per annum, according to age, qualifications and experience, will be paid during the course. Successful candidates will be offered appointments in the WAR OFFICE, Works Directorate, CHESSINGTON, Surrey.

Completed application forms MUST BE RETURNED by 4th APRIL, 1960.

HEATING SERVICES

AT

SAXONE BENEFIT SHOE CO.
LIMITED

Architect:
Michael H. Egan, F.R.I.B.A., A.A.Dipl.

H. W.
DUTTON
& CO. LTD.

25, Victoria Street,
London, S.W.1.

NEW HEADQUARTERS AND DISTRIBUTION CENTRE

for SAXONE LILLEY-SKINNER
Group of Companies

ARCHITECT: MICHAEL H. EGAN, F.R.I.B.A., A.A.DIPL.

THE

PRECAST TERRAZZO

WALL AND FLOOR TILING

WAS CARRIED OUT BY

A. ANDREWS & SONS
(MARBLES & TILES) LTD.
Railway Street Marble Works, Leeds 9
TELEPHONE: 29648 (3 lines)

STAFF RESTAURANT AT BIRKENHEAD
for

MOBIL OIL CO. LTD.

The installation of Wall and Floor Tiling for the above contract was entrusted to:—

JOHN WALLACE
& SONS
(MARBLE & TILES) LTD.

Established for over a Century

29, ST. ANNE STREET, LIVERPOOL, 3
Telephone: NORTH 2224/5

NEW HEADQUARTERS AND DISTRIBUTION CENTRE

for SAXONE LILLEY-SKINNER
Group of Companies

ARCHITECT: MICHAEL H. EGAN, F.R.I.B.A., A.A.DIPL.

THE

PERIMETER FENCING

FOR THIS CONTRACT
WAS
CARRIED OUT BY

PROCTOR BROTHERS,
(WIREWORKERS) LTD
Whitehall Road, LEEDS, 12

EDINBURGH CORPORATION.

DEPARTMENT OF THE CITY ARCHITECT.

A PRINCIPAL ASSISTANT ARCHITECT is required to take charge of the section dealing with all educational buildings in the City.

The post is one requiring considerable capacity in design and construction; candidates should also be capable of carrying through a programme of redevelopment of existing schools.

Salary scale £1,200 x £50-£1,400, with possible placing based on experience.

Applications giving age, qualification, full details of experience and the names of two referees as to character, should be sent to the City Architect, City Chambers, Edinburgh 1, not later than 23rd MARCH, 1960, marked "Staff—Confidential."

CITY OF LEICESTER HOUSING DEPARTMENT.

APPOINTMENT OF MAINTENANCE SUPERINTENDENT.

Applications are invited for the appointment of an AREA MAINTENANCE SUPERINTENDENT at a salary in accordance with A.P.T. II (£765-£880 per annum), plus an additional payment varying from £80-£120 per angum.

Candidates must possess a wide experience of building construction and building practice, and also the operation of incentive bonus schemes.

The successful candidate will be required to supervise a maintenance ano repairs organisation including stores and workshops.

The appointment is permanent and superannuable.

Housing accommodation available.

Applications stating age and experience, etc., together with the names of two referees, should be submitted to the Housing Manager, Municipal Offices, Charles-street, Leicester, not later than THURSDAY, 24th MARCH, 1960.

BRAINTREE RURAL DISTRICT COUNCIL.

TEMPORARY ARCHITECTURAL ASSISTANT.

Applications are invited from persons with sound experience in the preparation of surveys, plans, details of construction, and design of housing schemes. Preference will be given to applicants with R.I.B.A. Inter. or equivalent. N.J.C. service conditions. Salary within A.P.T. Grade II (£765-£880 p.a.). Housing considered. Write, giving age, experience, qualifications and two referees, to me by 19th MARCH, 1960. Canvassing disqualifies.

V. YOUNG,
Clerk of the Council.

St. Peter's Close,
Bocking,
Braintree,
Essex.

BOROUGH OF ROMFORD.

TEMPORARY CLERK OF WORKS (HOUSING).

Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department. Salary Grade A.P.T. I/II (£610-£880) plus £30. A travelling allowance will be paid where necessary. Particulars and Conditions of the appointment may be obtained from the Town Clerk, Town Hall, Romford, to whom completed applications should be sent not later than MONDAY, 21st MARCH.

DERBYSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

SENIOR ASSISTANT ARCHITECT Required. Salary £1,065 to £1,220 per annum. Extensive and interesting building programme and scope given for initiative. Applicants must be fully qualified. National Joint Council Conditions of service. Pensionable post. Canvassing disqualifies.

Application forms from the County Architect, County Offices, Matlock, to whom they should be returned as soon as possible.

COVENTRY CORPORATION

require

(a) ASSISTANT ELECTRICAL ENGINEERS, A.P.T. IV (£1,065-£1,220), or Special (£785-£1,070);

(b) ASSISTANT HEATING AND VENTILATING ENGINEER, A.P.T. IV (£1,065-£1,220);

for Section responsible for design, installation by Contract and Direct Labour and maintenance of electrical and heating and ventilating equipment in a wide and interesting range of Corporation buildings (including Redevelopment Programme) and Public Lighting. Commencing salary in accordance with qualifications and experience. Associate Membership of Inst.E.E. or Inst.H. & V.E. desirable. Housing accommodation may be available. Removal expenses loan. Application forms from City Engineer, Council House, Coventry, returnable by 23rd MARCH.

COUNTY COUNCIL OF ESSEX.

Two Assistant Building Surveyors, A.P.T.D. II, commencing salaries according to qualifications and experience but not exceeding £880.

These are additional appointments and one of the successful applicants will be required to work from an office in the North-East Essex Division at Colchester and the other in the South Essex Division at Upminster.

Work includes reports, estimates, specifications and supervising repair and maintenance of buildings. R.I.B.A. Building Surveyors Diploma an advantage.

Application forms from County Architect, County Hall, Chelmsford, to be returned with copies of three testimonials by 25th MARCH, 1960.

Canvassing disqualifies.

BOROUGH OF ASHTON-UNDER-LYNE.

APPOINTMENT OF ESTIMATOR/SURVEYOR.

Applications are invited for the above appointment in the office of the Borough Engineer and Surveyor at a salary within Grade I of the Administrative, Professional and Technical Division of the National Scales (between £610 and £765 according to experience).

The duties will include estimating for both new and maintenance work in connection with the Council's Direct Works Department and also preparing schedules of materials for ordering purposes, assisting with bonus calculations and giving assistance to the Quantity Surveyor.

The provision of housing accommodation for the successful candidate will be considered if necessary.

Particulars of the appointment and Application Forms may be obtained by application to the Borough Engineer and Surveyor, Municipal Offices, Ashton-under-Lyne, and should be returned to me by MONDAY, the 28th MARCH, 1960.

G. A. MALONE,
Town Clerk.

Town Hall,
Ashton-under-Lyne.
3rd March, 1960.

COUNTY BOROUGH OF STOCKPORT.

INSPECTOR OF WORKS Required for Repairs and Maintenance Section. Sound all round knowledge of building industry. Salary £650-£715 p.a. (Misc. Grade V) according to qualifications and experience.

Full particulars (age, experience, two referees) to Borough Architect, Town Hall, Stockport, by 21st MARCH, 1960, stating if related to any member/senior officer of Council. Post pensionable, subject to medical examination. Canvassing disqualifies.

WILLENHALL URBAN DISTRICT COUNCIL.

ARCHITECT'S DEPARTMENT.
E. E. Bannington, A.R.I.B.A.

Applications are invited for the following posts for work on an interesting and varied programme:

ARCHITECTURAL ASSISTANT, A.P.T. II, £765-£880.

JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. I, £610-£765.

The appointments will be subject to the Local Government Superannuation Acts, the National Scheme of Conditions of Service and to termination by one month's notice on either side. Housing accommodation is available and two-thirds of any removal expenses incurred will be paid by the Council.

Applications, giving details of age and experience (stating for which appointment application is made), together with the names and addresses of two referees should reach the undersigned not later than FRIDAY, 1st APRIL, 1960.

JOHN R. RIDING,
Clerk of the Council.

Town Hall,
Willenhall,
Staffs.

NORTH RIDING EDUCATION COMMITTEE.

CLERK OF WORKS wanted for supervising the erection of new schools in the Cleveland area. Salary £670 x £20-£770 a year. Previous experience may be taken into account in fixing commencing salary. Lodging allowance where necessary. Form and particulars from the undersigned. Completed forms to be returned by not later than 26th MARCH, 1960.

F. BARRACLOUGH.

County Hall,
Northallerton.

COUNTY BOROUGH OF EAST HAM EDUCATION COMMITTEE.

EAST HAM TECHNICAL COLLEGE.

Applications are invited for the post of ASSISTANT Grade "B" in the Building Department to teach Building Science and Mathematics. Applicants should preferably be graduates or hold some equivalent qualification.

Burnham Salary scale, £700 x £27 10s.-£1,150 plus London Allowance of £38 or £51. Appropriate allowances for qualifications, training and industrial experience.

Forms of application (returnable by 25th MARCH, 1960) and further information may be obtained from the Chief Education Officer, Education Office, Town Hall Annexe, Barking-road, East Ham, London, E.6

BUILDING SURVEYORS.

LONDON COUNTY COUNCIL Requires BUILDING SURVEYORS of Intermediate standard (R.I.C.S.) and unqualified but experienced men for following:—

1. Structural surveys, preparation of sketch plans and approximate estimates in connection with alterations to all types of buildings affected by road improvements.

2. Preparation of schedules of dilapidations, schedules of condition and estimates for minor works and repairs.

Variety of work offers opportunities for experience to those studying for professional qualifications. Up to £895 commencing according to qualifications and experience. Positions pensionable with promotion prospects.

Apply J. E. J. Toole, F.R.I.C.S., F.A.I., Valuer to Council, County Hall, S.E.1. for application form BS/35. (506)

UNIVERSITY OF HULL.

Experienced CLERK OF WORKS, for new Physics building starting June, 1960, by Architects' Co-Partnership. Salary in the range £1,000-£1,200 p.a., according to qualifications. Prospect of employment on further large buildings in development programme. Rented accommodation available. Further particulars from the Registrar, the University, Hull, to whom applications, together with the names and addresses of two referees, should be sent by 4th APRIL, 1960.

CENTRAL ELECTRICITY GENERATING BOARD.

QUANTITY SURVEYORS' ASSISTANTS

are Required in the Civil Engineering Sub-Branch of the Transmission Construction Branch, Transmission Department, Headquarters, London, S.E.1.

Candidates must have had previous experience in a Quantity Surveyor's or Contractor's office and should preferably be Students or Probationers of the Royal Institution of Chartered Surveyors.

The duties will be to assist in the Working-up of Bills of Quantities for Buildings and Civil Engineering Work in connection with the establishment of high voltage substations.

Salaries on a scale within the range £680-£820 p.a., according to duties and responsibilities.

Applications, stating age, qualifications, experience, present position and salary, to the Personnel Officer, 24-30 Holborn, London, E.C.1, by 28th MARCH. Envelopes should be marked "Confidential Ref. BUI/106."

ACCOMMODATION OFFICER

(age 45-55) required by Medical Research Council, 38 Old Queen-street, Westminster, S.W.1, for work at headquarters office. Duties include responsibility for some seventy widely scattered research establishments, e.g. maintaining a register of accommodation and a schedule of repairs and redecorations; instructing architects and other specialists for capital building programme; preparing drawings and specifications for minor works.

Candidates should have sufficient knowledge of conveyancing and legal matters to be able to instruct solicitors.

Salary according to qualifications and experience, at point within range £1,205-£1,480 per annum; superannuation provision.

Write full details (naming two professional referees) to Personnel Officer.

BOROUGH OF SWINDON.

ASSISTANT BUILDING INSPECTOR.

Applications are invited for the above appointment in the Borough Surveyor and Planning Officer's Department as a salary in accordance with A.P.T. Grade I (£610-£765 per annum).

The minimum qualification required is the Higher National Certificate in Building or the Building Inspector's Certificate of the Institution of Municipal Engineers.

HOUSING ACCOMMODATION offered to married candidates from other areas.

Only a skeleton staff is on duty on Saturday mornings.

Applications on forms to be obtained from the Town Clerk, Civic Offices, Swindon, must be returned by 28th MARCH, 1960.

COUNTY BOROUGH OF SOUTHAMPTON.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent posts:

(a) SENIOR ASSISTANT ARCHITECT, Special Grade (£785-£1,070).

(b) ARCHITECTURAL ASSISTANT, Grade A.P.T. II (£765-£880).

(c) SENIOR QUANTITY SURVEYOR, Special Grade (£785-£1,070).

Applicants should possess appropriate qualifications and should state their housing needs and commencing salary required.

Application forms from the Borough Architect, Civic Centre, Southampton, returnable by 26th MARCH, 1960.

TRAINEE QUANTITY SURVEYING ASSISTANTS

Required by COVENTRY CORPORATION (Department of Architecture and Planning). Commencing salary according to age e.g. £335 at age 19). Additional £26 local award in certain circumstances.

Study time training grants.

G.C.E. "O" English Language, Maths. and three other subjects required.

Previous technical training or experience builder's/professional office an advantage.

Details and application forms from City Architect, Council House, Coventry, returnable 2nd APRIL, 1960.

METROPOLITAN BOROUGH OF BATTERSEA.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments:—

TWO CLERKS, General Division, salary range £240-£730 per annum. For one of these posts experience in a builder's office is preferred.

COPY TYPIST. Salary range £235-£525 per annum.

Commencing salary according to age, qualifications and experience. London Weighting £10-£30 per annum payable in addition.

Further particulars and forms obtainable from Borough Engineer and Surveyor, Town Hall, S.W.11. Closing date 28th MARCH, 1960.

SHOREDITCH BOROUGH COUNCIL has vacancies for qualified Senior Architects for varied and interesting programme of important Public Buildings.

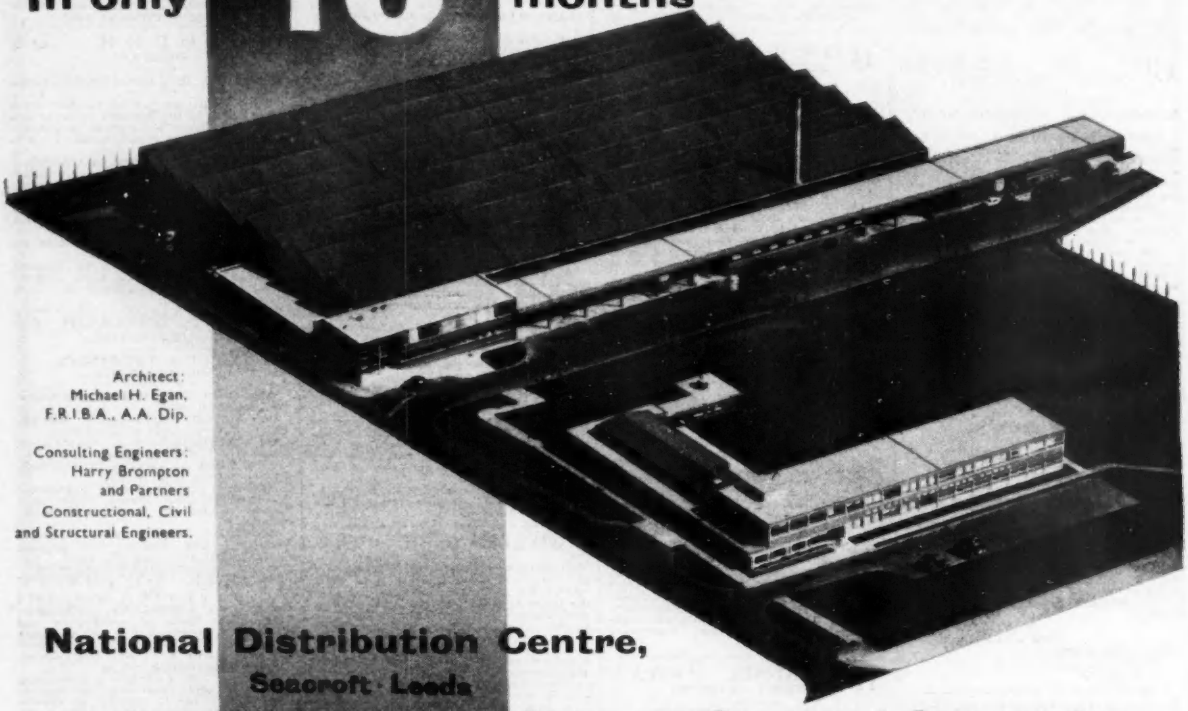
SENIOR ARCHITECTS

Salaries £1100 - £1400 p.a.

Applications to: **BOROUGH ARCHITECT, TOWN HALL, E.C.1**

Consult SHEPHERD for Industrial & Commercial Building

In only 10 months



Architect:
Michael H. Egan,
F.R.I.B.A., A.A. Dip.

Consulting Engineers:
Harry Brompton
and Partners
Constructional, Civil
and Structural Engineers.

National Distribution Centre,
Seacroft · Leeds
for Saxone, Lilley and Skinner Group of Companies

New Head Office and Centre comprising Office Blocks, Warehouse, Loading Bays, Garages and Canteens covering a total Ground Floor area of 140,000 square feet. SHEPHERD completed the buildings in 10 months, with a daily average of 80 men employed.

Advice at the Design Stage
Extensive Resources
First Class Management
—— adds up to Efficient Building

SHEPHERD

Build more in Yorkshire than any other Contractor

F. SHEPHERD AND SON LTD.
Building and Civil Engineering Contractors
Head Office: York. Telephone York 53040 — 14 lines.
Area Offices: Bradford Hull Richmond and Scarborough

SOUTH WEST METROPOLITAN REGIONAL HOSPITAL BOARD.

KINGSTON HOSPITAL.
CLERK OF WORKS.

Applications are invited for the appointment of a TEMPORARY CLERK OF WORKS to supervise the development of Kingston Hospital at a rate of pay of £20 a week. Candidates must have trained as craftsmen and have a thorough knowledge of all branches of the building trade and experience in the erection of large buildings (experience in Hospital building an advantage) including mechanical and electrical services and reinforced concrete construction and the keeping of records.

Applications stating age, qualifications, experience and giving the names and addresses of two architects to whom reference can be made, should be sent to the undersigned at 40 Eastbourne-terrace, London, W.2, by not later than 18th MARCH.

E. G. BRAITHWAITE,
Secretary.

COUNTY BOROUGH OF SWANSEA.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts :—

(a) SENIOR ASSISTANT ARCHITECT, Salary Grade A.P.T. IV (£1,065-£1,220).

Applicants must be Associates of the R.I.B.A. and must have had considerable experience in the design and supervision of the erection of public buildings.

(b) Two ASSISTANT QUANTITY SURVEYORS, Salary Grade A.P.T. II (£765-£880).

Applicants must have passed the Intermediate Stage of the R.I.C.S. (Quantities).

The commencing salary of both posts will be within the grade according to ability and experience. Housing accommodation will be provided for Post (a) (Senior Assistant Architect).

Candidates must be under 45 years of age unless in Local Government Service.

The appointment will be subject to the provisions of the Local Government Superannuation Acts and may be terminated by one month's notice on either side. The successful applicant will be required to pass a medical examination.

Forms of Application may be obtained from the Borough Architect, The Guildhall, Swansea, to whom they must be returned not later than FRIDAY, 25th MARCH, 1960.

Canvassing disqualifies.

T. B. BOWEN,
Town Clerk.

The Guildhall,
Swansea.
29th February, 1960.

COUNTY COUNCIL OF NORTHUMBERLAND.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited from Architects who have passed the R.I.B.A. Final Examination, having considerable practical office experience, for the post of ASSISTANT ARCHITECT on the staff of this Department. Salary, according to qualifications and experience, on Special Grade £785-£1,070 per annum with prospects of promotion to higher grades within the office in due course.

The appointment will be subject to the provisions of the Local Government Superannuation Acts and the successful candidates will be required to pass a medical examination.

Applications, in writing, stating age, qualifications and previous experience including any service with a Local Authority, together with the names and addresses of two referees to whom reference can be made, to be forwarded to the County Architect, County Hall, Newcastle upon Tyne, 1, WITHIN FOURTEEN DAYS of the publication of this notice.

WEST SUFFOLK COUNTY COUNCIL.

Applications are invited from suitably qualified persons for the post of ARCHITECTURAL ASSISTANT within A.P.T. Grade I (£610-£765).

N.J.C. Service Conditions; post pensionable; medical examination.

One day per week will be allowed for study at a recognised school of architecture.

Application forms obtainable from the County Architect, 13 Westgate-street, Bury St. Edmunds, to be returned as soon as possible.

PRISON COMMISSION.

LONDON require ASSISTANT ARCHITECT. Candidates must be over 25, registered architects with good professional experience in housing, institution and general work. Duties concern design rather than execution of work. Five-day week; some travelling. Promotion prospects; possibility of pensionable posts. Salary £805-£1,260 p.a. plus London weighting allowance between £25 and £40. Starting pay according to age. Forms from Ministry of Labour, Technical and Scientific Register (K), 26 King-street, London, S.W.1, quoting J.153/9A. Closing date 31st MARCH, 1960.

CITY OF LEICESTER.

EDUCATION COMMITTEE.

LEICESTER COLLEGE OF ART.
Principal: E. E. Pullée.
A.R.C.A., F.S.A.E.

SCHOOL OF BUILDING.

Applications are invited for the post of LECTURER, chiefly for the full-time and part-time courses preparing students for the examinations of the Royal Institution of Chartered Surveyors. Candidates should hold B.Sc. (Estate Management), A.R.I.C.S., or equivalent qualifications.

Applicants should state which of the following subjects they are able to teach: Law of Property, Central and Local Government, Economics, Book-keeping, Law of Contract and Tort, Law of Dilapidations, Valuations, Town and Country Planning (Law and Procedure), London Building Acts and By-laws.

Salary: Burnham Technical Scale—for men £1,370 x £35 to £1,550 p.a.

Forms of application may be obtained from the Registrar, to whom they should be returned, together with copies of two recent testimonials, within 14 days of the publication of this advertisement.

BOROUGH OF LEYTON (in the County of Essex).

COMMITTEE FOR EDUCATION.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of ARCHITECTURAL ASSISTANT, Grade A.P.T. II, £765-£880 per annum, plus London Weighting. The successful applicant will be employed by the Essex County Council, and will work in the School Architect's Section of the Borough Engineer and Surveyor's Department, Town Hall, Leyton, E.10; five-day week is operated.

Details and forms of application from the Borough Education Officer, Education Offices, Kirkdale-road, Leytonstone, E.11, to whom they should be returned within 10 days from the appearance of this advertisement.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.

LEYLAND URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

(1) ASSISTANT ARCHITECT (Special Grade), £785 to £1,070 p.a.
(2) BUILDING CLERK OF WORKS. Grade A.P.T. I, £610 to £765 p.a.

Applications are invited for the above vacancies.

Applicants for post No. 1 should hold an appropriate architectural qualification and be experienced in the preparation of working drawings and specifications for housing and other municipal work, and must also be competent and willing to undertake quantity surveying work.

Applicants for post No. 2 should be tradesmen who have obtained the Higher National Certificate in Building, and are competent to supervise house construction, and maintain site records and measurements.

Applicants should state whether they require housing accommodation.

Applications, stating full name and address, age, details of schools attended and certificates obtained, past and present posts, salaries and experience, with copies of two recent testimonials, should be sent in suitably endorsed envelopes so as to reach me not later than the 19th MARCH, 1960.

W. C. F. GODSELL,
Clerk to the Council.

Council Offices,
Leyland, Lancs.
February, 1960.

METROPOLITAN BOROUGH OF ISLINGTON.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited from suitably qualified persons, not more than 50 years of age, for the following appointments on the permanent staff of the Housing Maintenance Section.

(a) SENIOR TECHNICAL ASSISTANT, Grade A.P.T. III (£880-£1,065 p.a.).
(b) SECOND TECHNICAL ASSISTANT, Grade A.P.T. II (£765-£880 p.a.).
(c) TECHNICAL ASSISTANT, Grade A.P.T. II (£765-£880 p.a.).
(All excluding London Weighting.)

Applicants with experience in the building trade and the maintenance of housing properties should preferably for position (a) have passed the final examination of an appropriate professional Institute, for position (b) have passed the Intermediate R.I.C.S. (Building) or equivalent, and for position (c) possess a Higher National Certificate in Building.

Application forms, returnable by FIRST POST ON MONDAY, 28th MARCH, 1960, obtainable from the Borough Engineer and Surveyor, Town Hall, Upper-street, N.1.

H. DIXON CLARK,
Town Clerk.

CORPORATION OF LONDON

Require: BUILDING SURVEYOR for maintenance repairs and dilapidations, £915 to £1,120 per annum.

Final R.I.C.S. examination and previous experience in preparation and settlement of schedules of dilapidations essential.

Applications in writing, giving full particulars of age, experience and qualifications to City Surveyor, Guildhall, E.C.2.

THE NORTH WESTERN ELECTRICITY BOARD.

THIRD ASSISTANT ENGINEER (CIVIL ENGINEERING).

SUB-AREA ENGINEERING DEPARTMENT, OLDHAM.

Applicants should be suitably qualified and have had experience in preparing sketch schemes, working drawings and specifications for commercial buildings, including Service Centres and supervision of work on site. Membership of the Royal Institute of British Architects will be an advantage.

Salary Scale: £1,025-£1,085 p.a., Class "L," Grade 10. N.J.B. Conditions.

Applications must be made on a form to be obtained from the Manager, No. 1 Sub-Area, The North Western Electricity Board, Union-street, Oldham, and returned to him so as to be received not later than 21st MARCH, 1960.

CITY OF CANTERBURY.

Applications are invited for the appointment of GENERAL TECHNICAL PLANNING ASSISTANT, General Division (£210-£595), in the Department of the City Architect and Planning Officer.

The successful candidate will be required to assist in the drafting of plans, filing and other duties connected with Town Planning. Previous experience in such matters is desirable but not essential. For anyone entering the Planning profession, the post offers opportunities for gaining practical knowledge and varied experience. The commencing salary will be according to age and experience.

Applications, stating age, qualifications, education and experience, together with the names of two referees should be received by the Sity Architect and Planning Officer, 15 Dane John, Canterbury, not later than WEDNESDAY, 16th MARCH, 1960.

Canvassing will disqualify.

J. BOYLE,
Town Clerk.

BOROUGH OF RAMSGATE.

APPOINTMENT OF ASSISTANT BUILDING INSPECTOR.

Applications are invited for the above post in the Borough Surveyor's Department, at a salary within Grade A.P.T. I (£610 x £30-£765).

Applicants must have a thorough knowledge of all classes of building work covered by the Building By-laws and the Public Health Acts, and experience of the procedure under the Petroleum Acts, the Cinematograph Acts and the administration of Improvement Grants, would be an advantage.

The appointment is subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, and the passing of a medical examination.

Housing accommodation will be made available if required.

Applications, endorsed "Assistant Building Inspector," stating age, qualifications and experience, together with the names of two persons to whom reference can be made, must reach the undersigned by not later than MONDAY, 21st MARCH, 1960.

Canvassing either directly or indirectly will disqualify.

K. F. SPEAKMAN,
Town Clerk.

Municipal Buildings,
Ramsgate.

BOROUGH OF BEBINGTON.

(a) SENIOR ARCHITECTURAL ASSISTANT—Grade A.P.T. IV.
(b) ARCHITECTURAL ASSISTANT—Special Classes.

Applications are invited for the above posts, commencing salaries of which will be fixed according to qualifications and experience.

Applicants for both posts must hold appropriate architectural qualifications and in the case of post (a) applicants should also be capable of undertaking development schemes of housing and public buildings.

Application forms are available from the Borough Engineer and Surveyor, Town Hall, Bebington, Cheshire, and when completed should be returned to the Town Clerk so as to be received by him at the same address not later than FIRST POST on MONDAY, 21st MARCH, 1960.

The candidates appointed, if married, and considered by the Council to be in need of housing at the time of appointment, will be found accommodation within a reasonable period of time.

Canvassing will be a disqualification.

G. CHAPPELL,
Town Clerk.

Town Hall,
Bebington.

CITY OF SHEFFIELD.

CITY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF SENIOR ASSISTANT QUANTITY SURVEYOR. Grade III (£880-£1,065).

Applications are invited from appropriately qualified QUANTITY SURVEYORS for the above APPOINTMENT in the Quantity Surveyor's Section of the City Architect, Mr. J. L. Womersley.

Commencing salary within the above grade commensurate with the successful applicants' qualifications and experience.

Assistance with housing accommodation and removal expenses will be given if required, in suitable cases.

Applications stating age, education, training, qualifications, experience, present and past appointments (with dates and salaries) and the names and addresses of two referees should reach me by 21st MARCH, 1960.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.
7th March, 1960.

STEVENAGE URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF TEMPORARY CLERK OF WORKS.

Applications are invited for the above appointment at a salary of £15 per week.

Applicants must be experienced in the supervision of house construction and site works and will be required to control contracts for improvement schemes to pre-war Council houses.

The appointment will be for a period of approximately 12 months.

Applications stating age, qualifications and experience, together with the names of two referees must reach the undersigned by 25th MARCH, 1960.

E. J. BOWERS,
Clerk of the Council.

Council Offices,
Orchard-road,
Stevenage,
Herts.

CITY OF WORCESTER.

APPOINTMENT OF BUILDING MAINTENANCE SURVEYOR.

Applications are invited for this appointment on the staff of the City Engineer and Surveyor within A.P.T. Grade I (Salary £610-£765 p.a.).

Candidates should have a thorough knowledge of building work and should be capable of preparing reports, estimates and specifications and of supervising all types of building maintenance and minor building works.

The post is superannuable and the successful candidate will be required to pass a medical examination.

Housing accommodation will be made available if required and assistance towards removal expenses will be given where reasonably incurred.

Further particulars of the appointment may be obtained from the City Engineer and Surveyor, 22 Bridge-street, Worcester, to whom applications should be addressed stating age, experience, present and previous appointments together with the names of two referees. Applications are to be delivered by 23rd MARCH, 1960.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

STEVENAGE URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments:

(a) ENGINEERING ASSISTANT, Special Grade (£785-£1,070 p.a.), or A.P.T. IV (£1,065-£1,220 p.a.) (according to age, experience and qualifications) for employment, initially, on the design and construction of improvements to Council houses. Preference will be given to those who have passed the Final Examination of the Royal Institution of Chartered Surveyors.

(b) BUILDING INSPECTOR, A.P.T. III (£880-£1,065 p.a.). Candidates must have a sound knowledge of building construction and the administration of the Building By-laws and have passed the Building Inspector's examination of the Institution of Municipal Engineers.

Housing accommodation will be provided, if required.

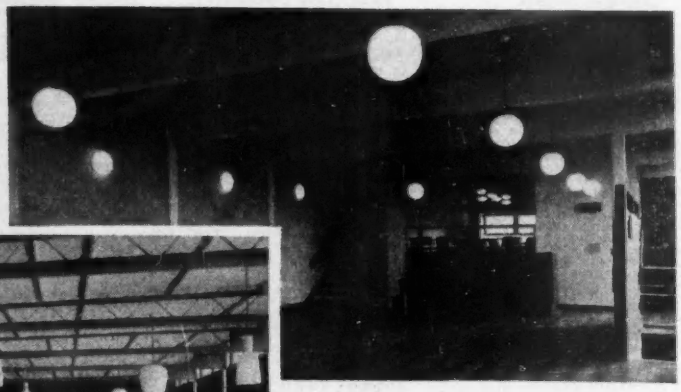
The appointments will be subject to the Local Government Superannuation Acts and to the passing of a medical examination. The appointments are terminable by one month's notice on either side.

Applications stating age, past and present appointments, qualifications and experience, together with the names of two referees must be delivered to the undersigned by 25th MARCH, 1960.

E. J. BOWERS,
Clerk of the Council.

Council Offices,
Orchard-road,
Stevenage,
Herts.

Staff Restaurant
at
Birkenhead
for
Mobil Oil Co Ltd
(illustrated in this issue)



Architects: Grenfell Baines & Hargreaves

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HUYTON - WITH - ROBY URBAN DISTRICT COUNCIL.

ARCHITECTURAL AND HOUSING DEPARTMENT.

(a) SENIOR ASSISTANT ARCHITECT, Grade A.P.T. IV (£1,065-£1,220).

(b) ARCHITECTURAL ASSISTANT, Grade A.P.T. II (£765-£880).

Candidates for post (a) should be associate members of the R.I.B.A., and candidates for post (b) should have passed the Intermediate Examination of the R.I.B.A.

The work of the Department consists of a large Housing and Capital Works programme, which includes a Sports Stadium and Civic Hall.

Applications, stating age, qualifications and experience, together with the names of two persons to whom reference can be made, should reach R. T. Chappel'e, A.R.I.B.A., Architect and Housing Director, "Grasscroft," Archway-road, Huyton, not later than MONDAY, 28th MARCH, 1960.

Canvassing disqualifies.

D. WILLGOOSE,
Clerk of the Council.

Council Offices,
Derby-road,
Huyton.

BOROUGH OF DUNSTABLE.

APPOINTMENT OF ASSISTANT BUILDING INSPECTOR.

Applications are invited for the above appointment in the Borough Surveyor's Department from young men with knowledge of the Building Trade.

Salary in accordance with Miscellaneous Grade IV (£590 x £20-£650). N.J.C. Conditions will apply. The post is superannuable.

Replies, stating age, education, past experience, and the names and addresses of two referees, to the UNDERSIGNED by MONDAY, 21st MARCH, 1960.

JACK SMITH,
Town Clerk.

Municipal Offices,
Dunstable,
Beds.

BOROUGH OF ENFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT, Grade A.P.T. I (£610-£765 per annum, plus a London Weighting Allowance of £10-£30 per annum according to age).

Applicants must have had experience in the preparation of plans, specifications, etc., including the maintenance of public buildings.

Saturday mornings are normally free of duty.

Application forms obtainable from H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middlesex, returnable to the undersigned.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield,
Middlesex.

(Amended Advertisement)

BOROUGH OF WARWICK.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for a SENIOR ASSISTANT to work immediately under the Chief Architectural Assistant in the Borough Surveyor's Department. Salary A.P.T. III (£880-£1,065), entry in the scale according to qualifications and experience. The position is permanent and subject to medical examination. Housing accommodation will be provided if necessary and removal expenses paid.

Applicants must have passed at least the Finals of the R.I.B.A.

The post offered is for the design and site supervision of large Housing Estate Development incorporating shops, multi-storey flats, etc.

Applications, stating age, qualifications, experience and the names and addresses of two referees, should be sent to the Borough Surveyor, 23 Jury-street, Warwick, not later than MONDAY, the 21st MARCH, 1960.

HECTOR SETON BROWN,
A.M.I.C.E., A.M.I.W.E.,
Borough Engineer and Surveyor.

23 Jury-street,
Warwick.
22nd February, 1960.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT

NEW SECTION FOR NEW TOWN DEVELOPMENT.

A new section is being set up to prepare outline proposals for the L.C.C. New Town.

PLANNING ASSISTANTS with architectural, engineering or economics background required for short-term, original and interesting work. Later opportunities for careers for those interested. Up to £1,135 (under review) in accordance with qualifications and experience.

Application form, and further particulars, from Hubert Bennett, F.R.I.B.A., Architect to Council EK/27/60, County Hall, S.E.1. (270.)

VALUATION OFFICE.

Inland Revenue, require BUILDING SURVEYOR for Eastern Region based on Cambridge. Salary range £1,285-£1,785, starting salary depending on quals. and experience. Sound knowledge and experience of building construction and costing of offices, factories, schools, public buildings, etc. Required: Membership of R.I.C.S., R.I.B.A., or other appropriate qualification desirable. Posts unestablished but term of years envisaged. Forms from Ministry of Labour, Technical and Scientific Register (K), 26 Kingsstreet, London, S.W.1, quoting J.78/OA.

MIDHURST RURAL DISTRICT COUNCIL.

CAPITAL WORKS ASSISTANT No. 2.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the above appointment at a salary within Grade A.P.T. II/III (£765-£1,065 per annum) according to qualifications and experience.

The Council have a large programme of capital works and the appointment will afford interesting experience in design and supervision of new schemes of water supply, housing, car parks, sewerage and sewage disposal.

Applicants should be able to drive and provide a car for which an allowance will be paid according to the duties carried out. Assistance will also be given with housing accommodation and removal expenses in a suitable case.

Applications giving particulars of age, qualifications, experience and present appointment, together with the names and addresses of two referees must be received by the undersigned not later than 26th MARCH, 1960.

D. L. BLAY,
Clerk of the Council.

Council Offices,
Midhurst,
Sussex.

UNIVERSITY OF CAMBRIDGE,

Department of Estate Management, requires the services of a fully qualified BUILDING SURVEYOR, who has had wide experience in connection with maintenance of, and minor new works to, various types of buildings.

The salary will be fixed in accordance with an existing grading scheme for officers in the Department, having regard to age and experience. The post is pensionable and children's allowance is payable where appropriate. Detailed applications giving the names of two referees should reach the Director in Estate Management, 74 Trumpington-street, Cambridge, by 21st MARCH, 1960.

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.

(a) SENIOR ASSISTANT ARCHITECT, A.P.T. Grade IV (£1,065-£1,220 per annum). Qualifications: A.R.I.B.A.

(b) SENIOR ASSISTANT ARCHITECT, Special Grade (£785-£1,070 per annum). Qualifications: A.R.I.B.A.

(c) JUNIOR ARCHITECT, General Division (£210-£595 per annum). Qualifications: Probationer R.I.B.A.; or ASSISTANT ARCHITECT, A.P.T. Grade I (£610-£765 per annum). Qualifications: Intermediate R.I.B.A.

(d) JUNIOR QUANTITY SURVEYOR, General Division (£210-£595 per annum). Qualifications: Student member R.I.C.S. with previous experience in Quantity Surveyor's Office; or ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade I (£610-£765 per annum). Qualifications: Intermediate R.I.C.S. with good experience in working-up Bills of Quantities and Final Accounts, measuring on site and taking-off for small works.

Commencing salary according to qualifications and experience. Permanent superannuable appointments, subject to one month's notice and to medical examination. National Conditions of Service.

Forms of application obtainable from and to be returned to the Borough Architect, The Council House, Corporation-street, Derby, not later than MONDAY, 28th MARCH, 1960.

G. H. EMLYN JONES,
Town Clerk.

4th March, 1960.

BUCKS. COUNTY COUNCIL.

Applications are invited for the appointment of an ASSISTANT QUANTITY SURVEYOR in the County Architect's Department on Grade A.P.T. I, £610 to £765 p.a.

The appointment is superannuable and subject to medical examination and applicants should have passed the intermediate examination of the Royal Institute of Chartered Surveyors.

A weekly allowance of 25s. and return fare home once every two months may be made for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by 21st MARCH, 1960.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury.

EAST ANGLIAN REGIONAL HOSPITAL BOARD.

SENIOR ASSISTANT ARCHITECTS. Salary £1,050-£1,245.

ASSISTANT ARCHITECTS. Salary £730-£1,055; additional increments within scale based on experience and age may be granted.

Candidates for above posts must be qualified and registered architects by examination.

ARCHITECTURAL ASSISTANTS. Salary £545 (at 21 or over)-£765; commencing figure may be fixed at point above minimum but will not exceed £630. Candidates must have passed intermediate examination of R.I.B.A.

These appointments are for work on major development schemes and offer considerable scope for gaining experience on large scale hospital projects. Salary scales are under review. Applications stating age, qualifications, experience and details of present position (salary, etc.) with names of three referees, to Secretary of Board, 117 Chesterton-road, Cambridge, by 18th MARCH, 1960.

CITY OF WESTMINSTER.

TRACER and GENERAL DRAWING OFFICE ASSISTANT (male), for tracing and colouring, simple drawing, filing, etc. Commencing salary according to age and qualifications in scale rising to £760 p.a., e.g. £485 at 21, £580 at 24.

Applications, stating age, experience and referee, to Town Clerk, Westminster City Hall, Charing Cross Road, W.C.2, by 24th MARCH, 1960.

BOROUGH OF BRENTFORD & CHISWICK.

Applications are invited for the appointment of a BUILDING SURVEYOR/ESTIMATOR on Grade A.P.T. II £765-£880 p.a.) plus London Weighting allowance.

Applications should be forwarded to the Borough Engineer and Surveyor, Town Hall, Chiswick, W.4, by 19th MARCH, 1960.

W. F. J. CHURCH,
Town Clerk.

Town Hall,
W.4.

COUNTY BOROUGH OF BOLTON.

HOUSING DEPARTMENT.

Applications invited for appointment of QUANTITY SURVEYOR. Salary A.P.T. III (£880-£1,065). Applicants should be capable of Taking-off and building quantities, measuring on site, adjusting variations in contracts and preparing estimates for flats and houses. The post is superannuable subject to medical examination.

Applications, stating age, qualifications, details of experience and naming two referees, to be received by me by 28th MARCH.

PHILIP S. RENNISON,
Town Clerk.

Town Hall,
Bolton.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

CITY ARCHITECT'S DEPARTMENT.

The City Architect will be pleased to receive applications for the following Established Post in the Quantity Surveying Section of the Department:—

SENIOR ASSISTANT QUANTITY SURVEYOR—A.P.T. Division, Grade III (£880-£1,065 per annum).

Application forms and full particulars may be obtained from George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 11 Cloth-market, Newcastle upon Tyne, 1.

Closing date for receipt of completed applications—MONDAY, 28th MARCH, 1960.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
4th March, 1960.

BOROUGH OF CHATHAM.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the above appointment at a salary within Special Grade (£785-£1,070) and A.P.T. IV (£1,065-£1,220) according to qualifications and experience. Preference will be given to applicants who are professionally qualified and suitably experienced.

Applications, with the names and addresses of two referees, should be delivered to Mr. J. A. T. Richards, Borough Engineer and Surveyor, Town Hall, Chatham, not later than FRIDAY, 25th MARCH, 1960.

Housing accommodation will be available in an appropriate case.

The appointment will be (a) in accordance with the National Scheme of Conditions of Service, (b) terminable by one month's notice on either side, and (c) superannuable, subject to satisfactory medical report.

In accordance with their usual practice the Council will require the successful candidate to give an undertaking to remain in the Council's service for two years.

ROWLAND NEWNES,
Town Clerk.

Town Hall,
Chatham.

METROPOLITAN BOROUGH OF GREENWICH.

APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the position of JUNIOR ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department. Salary A.P.T. I (£610 to £765 per annum plus London Weighting), commencing salary in accordance with experience.

Preference will be given to applicants with experience of architectural drawing who have made suitable progress towards completion of the examination of the R.I.B.A. or R.I.C.S. Facilities available for study on one day per week.

Form of application obtainable from Town Clerk, Town Hall, Greenwich, S.E.10, and returnable by noon on MONDAY, 21st MARCH, 1960.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
March, 1960.

MIDHURST RURAL DISTRICT COUNCIL.

GENERAL TECHNICAL ASSISTANT.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the above appointment at a salary in accordance with Grade A.P.T. I (£610-£765 per annum). Commencing salary according to experience.

The duties will be clerical and supervisory and will include the management of certain routine services under the direction of the head of the Department. Preference will be given to applicants with experience of book-keeping, stores, vehicle and plant maintenance, public cleansing, housing repairs supervision and knowledge of surveying and levelling procedure.

Applicants should be able to drive and provide a car for which an essential user car allowance will be paid. Assistance will also be given with housing accommodation and removal expenses in a suitable case.

Applications giving particulars of age, qualifications, experience and present appointment, together with the names and addresses of two referees must be received by the undersigned not later than 26th MARCH, 1960.

D. L. BLAY,
Clerk of the Council.

Council Offices,
Midhurst,
Sussex.

BRACKNELL DEVELOPMENT CORPORATION.

Applications are invited for the post of ASSISTANT ARCHITECT, salary range £1,065-£1,220. Applicants must be Corporate Members of the R.I.B.A. Superannuation schemes, medical examination. Housing available. Apply by 24th MARCH, 1960, giving age, education and qualifications, experience and appointments held (with dates and salaries), and names of two referees, to General Manager (A), Bracknell Development Corporation, Farley Hall, Bracknell, Berks.

CITY OF SHEFFIELD.

CITY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ASSISTANT ENGINEER, HEATING AND VENTILATING.

Grade A.P.T. IV (£1,065-£1,220).

Applications are invited for this APPOINTMENT on the permanent staff of the City Architect, Mr. J. L. Womersley.

Applicants should preferably be A.M.I.H.V.E., and be experienced in designing mechanical engineering services in schools and similar buildings.

The commencing salary will be at a point within the above scale commensurate with the successful candidate's experience and qualifications.

Applications stating age, education and training, qualifications, present and past appointments (with dates and salaries), experience and the names of two persons to whom reference may be made should reach me WITHIN 14 DAYS of the appearance of this advertisement.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.
4th March, 1960.

COUNTY BOROUGH OF EAST HAM.

APPOINTMENT OF SENIOR SURVEYING ASSISTANT—HOUSING DEPARTMENT.

Applications are invited. Salary in accordance with Grade A.P.T. III (£880-£1,065 per annum) plus London Weighting.

Applicants should have passed the Final Examination of the Royal Institution of Chartered Surveyors (Building Sub-Division), have had experience of supervision of housing contracts and be competent draughtsmen.

Further particulars and application form (returnable by 6th APRIL, 1960) from the Town Clerk, Town Hall, East Ham, E.6.

QUANTITY SURVEYORS

Pensionable posts for men and women in:

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MINISTRY OF EDUCATION
MINISTRY OF HEALTH
DEPARTMENT OF AGRICULTURE FOR SCOTLAND
MINISTRY OF WORKS
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Age at least 25 and under 35 on 1.1.60 (extension for regular Forces service, Overseas Civil Service, established civil service and temporary Government service as Quantity surveyor). Candidates must have achieved Corporate Membership of R.I.C.S. (Quantities Section) or have passed examinations necessary for attaining such membership Starting salary (men, London) from £830 to £1,125 according to age. Scale maximum (London) £1,300. Promotion prospects. Write Civil Service Commission, 17 North Audley Street, London, W.1, for application form quoting S/63/7.

PETERLEE DEVELOPMENT CORPORATION.

CHIEF QUANTITY SURVEYOR'S DEPARTMENT.

APPOINTMENT OF JUNIOR QUANTITY SURVEYOR.

Applications are invited for the appointment of JUNIOR QUANTITY SURVEYOR on the Corporation's Salary Grade A.P.T. I (£610-£765).

Applicants should be up to the standard of the first examination of the Royal Institution of Chartered Surveyors and be capable of abstracting and billing with some experience of site measuring.

The appointment, which is superannuable, is subject to the Corporation's Conditions of Service and will be terminable by one month's notice on either side. The successful applicant will be required to pass a medical examination.

Housing accommodation available if necessary.

Applications, stating age, experience, qualifications and liability to National Service, and giving the names of two persons to whom reference can be made, should reach the undersigned not later than MONDAY, 21st MARCH, 1960.

A. Y. WILLIAMS,
General Manager.

Shotton Hall,
Peterlee,
Co. Durham.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

CITY ARCHITECT'S DEPARTMENT.

The City Architect will be pleased to receive applications for the following appointments in this Department in connection with the New Town Hall project:

SENIOR ASSISTANT ARCHITECTS (Two vacancies)—A.P.T. Division Grade IV (£1,065-£1220 per annum).

These posts will offer ideal opportunity for Architects wishing to work on an important building involving finishes of high quality. It is anticipated that work on the site on the first three blocks of the New Town Hall will commence in April, 1960, and the whole project is estimated to cost over £2,000,000. A high standard of design ability and an appreciation of and experience in good quality building work is essential.

Application forms and full particulars may be obtained from George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18 Cloth-market, Newcastle upon Tyne, 1.

Closing date for receipt of completed applications—MONDAY, 28th MARCH, 1960.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
4th March, 1960.

Amended Advertisement.

WEST SUSSEX COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment:

CHIEF HEATING, MECHANICAL, ELECTRICAL ENGINEER, at a salary in accordance with Scale B (£1,265 x £55(4)-£1,485).

COMMENCING SALARY WILL BE ACCORDING TO EXPERIENCE.

Further particulars should be obtained from the County Architect, County Hall, Chichester, to whom all detailed applications must be submitted not later than 4th APRIL, 1960.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester.

WELSH REGIONAL HOSPITAL BOARD.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts:—

(A) SENIOR ASSISTANT QUANTITY SURVEYOR. Applicants must be corporate members of the Royal Institution of Quantity Surveyors. Salary £1,050 x £30 (3) x £35 (3) to £1,245 (under review).

Person appointed must have extensive professional experience in the preparation of Bills of Quantities and Final Accounts, Site Measurement and Valuation for interim certificates on Architectural and Engineering projects.

(B) ASSISTANT ARCHITECT. Applicants must be Registered Architects. Salary £730 x £25 (2) x £30 (2) x £35 (5) x £40 (1)—£1,055 (under review). Age and experience can be taken into account in fixing the commencing salary. Person appointed must be well experienced in the preparation of a scale working drawings, details, specification, surveying, levelling and the supervision of contracts.

(C) ARCHITECTURAL ASSISTANT. Applicants must possess the Intermediate Examination of the R.I.B.A. and have had good experience in general architectural practice. Salary £545 at age 21 or over, x £20 (3) x £25 (4) x £30 (2)—£765.

(D) DRAUGHTSMAN. Applicants must have had suitable training and some technical experience in architectural drawing. Salary £445 at age 21 or over, x £25 (2) x £30 (3)—£660 (under review).

All posts are superannuable and terminable by one month's notice on either side. Applications, stating age, experience, qualifications, present position and salary, together with the names of two referees, to the Secretary of the Board, Temple of Peace and Health, Cathays-park, Cardiff, WITHIN 14 DAYS of the appearance of this advertisement.

BOROUGH OF WORTHING.

Applications are invited for the following appointments in the Borough Engineer's Department:—

(a) JUNIOR TOWN PLANNING ASSISTANT, Grade A.P.T. I (£610-£765 p.a.).

Preference will be given to persons who have had experience in a Town Planning Section of a Local Authority and who intend studying with a view to taking a Town Planning qualification.

(b) DRAUGHTSMAN (Architectural Section) (male or female). General Division (£210-£595 p.a.).

Candidates must be good draughtsmen, and should preferably have had experience in Architectural work. Commencing salary according to experience.

The appointments will be subject to the Local Government Superannuation Acts, and to the successful applicants passing satisfactorily a medical examination. The appointments will be terminable by one month's notice on either side.

Applications, stating age, particulars of training, experience and qualifications (if any) and accompanied by two recent testimonials, should be sent to the Borough Engineer, Town Hall, Worthing, so as to reach him not later than MONDAY, 21st MARCH, 1960.

ERNEST G. TOWNSEND,
Town Clerk.

AIR MINISTRY Works

Designs Branch requires in LONDON and Provinces, ARCHITECTURAL ASSISTANTS with adequate training and drawing office experience. O.N.C. (Building) an advantage. Work includes site layouts, sketch plans, working drawings and details for variety of technical and domestic buildings in permanent and semi-permanent construction. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. Five-day week with 18 working days' leave per year initially. Overseas tours for which special allowances granted. Salary in LONDON ranges from £680 (age 25) to £900 p.a. for men; from £673 ao £868 p.a. for women; somewhat lower in PROVINCES. Commencing salary dependent on age, qualifications and experience. Applicants, who must be natural born British subjects, should write to Air Ministry, W.G.C., Lacon House, Theobalds-road, London, W.C.1, or to any Employment Exchange (quoting Order No. Kings Cross 3744), giving age, details of training, qualifications, full particulars of former posts held and copies of any testimonials. Candidates selected will normally be interviewed in London and certain expenses reimbursed.

CIVIL SERVICE.

QUANTITY SURVEYORS AND ASSISTANT QUANTITY SURVEYORS Required by several Government Departments. Posts in London, provinces and occasionally overseas. London salaries for suitably qualified and experienced men over 25 years of age, range from £830 to £1,300 per annum. QUANTITY SURVEYING ASSISTANTS and others having some experience in Quantity Surveying at salaries ranging from £387 10s. to £900 per annum also required. Prospects of promotion and pensionable status.

Write for particulars of vacancies in each department and forms quoting J.Q.S. to Ministry of Labour, Technical and Scientific Register, 26 King-street, London, S.W.1.

GLASGOW CORPORATION.

ARCHITECTURAL AND PLANNING DEPARTMENT.

RESIDENT ENGINEER.

Applications are invited until MONDAY, 21st MARCH, for the temporary post of RESIDENT ENGINEER to take charge of new multi-storey reinforced concrete framed construction in Glasgow. The appointment will, subject to satisfactory service, last for five years and the salary will be £1,200 per annum rising by annual increments of £75 to £1,500. Previous experience on site supervision for similar work is essential, with special reference to concrete control and instrumental setting-out. Applications giving full particulars, including previous experience, and accompanied by two recent testimonials and the name of one referee, should be addressed to the City Architect and Planning Officer, 20 Trongate, Glasgow, C.1, marked on the outside "Resident Engineer."

A. G. JURY,
City Architect and Planning Officer.

AIR MINISTRY Requires in

CENTRAL LONDON and PROVINCES, LANDS TECHNICAL ASSISTANTS with general experience in Estate Agents and Surveyor's Office, some posts require Field Survey experience. Salary scale for Grade III in LONDON from £585 to £900 p.a. Somewhat lower in PROVINCES. Commencing salary dependent on age, qualifications and experience. Also vacancies in lower grade IV on scale from £455 to £772 p.a. No upper age limit for Central London vacancies. 5-day week. 18 working days' paid leave a year initially plus Bank Holidays. Promotion prospects up to Grade I (maximum salary in London £1,300). Pension prospects. Applicants, who must be natural born British subjects, should write to Air Ministry, W.G.d, Lacon House, Theobalds-road, London, W.C.1, or to any Employment Exchange (quoting Kings Cross 3750), giving age, details of training and qualifications. Candidates selected will normally be interviewed in London and certain expenses reimbursed.

CITY OF OXFORD.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the following posts:—

SENIOR ARCHITECTURAL ASSISTANTS. A.P.T. Grade IV (£1,065-£1,220). (Grading under review.)

Suitable housing accommodation, if required, will be provided by the Council for the above posts.

The successful applicants must be members of the Royal Institute of British Architects and will be engaged mainly on educational and civic buildings. Applicants should have several years' experience and possess a wide knowledge of modern methods of construction and contract procedure and must be capable of carrying through contracts from sketch stage to completion with minimum supervision. A high standard of design ability and a keen interest in contemporary architecture are essential. Assistants are encouraged to control their own contracts from sketch design onwards.

The appointments will be subject to the National Conditions of Service and the successful candidates will be required to pass a medical examination.

Application forms to be obtained from the City Architect and Planning Officer, Town Hall, Oxford. Closing date 25th MARCH, 1960.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

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Write to the Crown Agents, 4 Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M2B/50877/BH.

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Candidates must be skilled technicians with extensive experience in Public Works as Clerk of Works, Superintendent or General Foreman. A sound knowledge of building works in all trades is essential and some experience of small water purification systems or distribution systems an advantage.

Write to The Crown Agents, 4, Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M2B/50965/BH.

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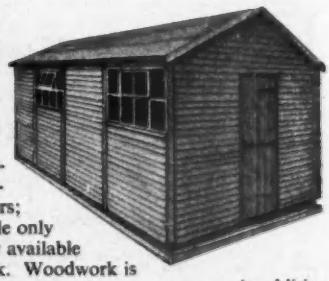

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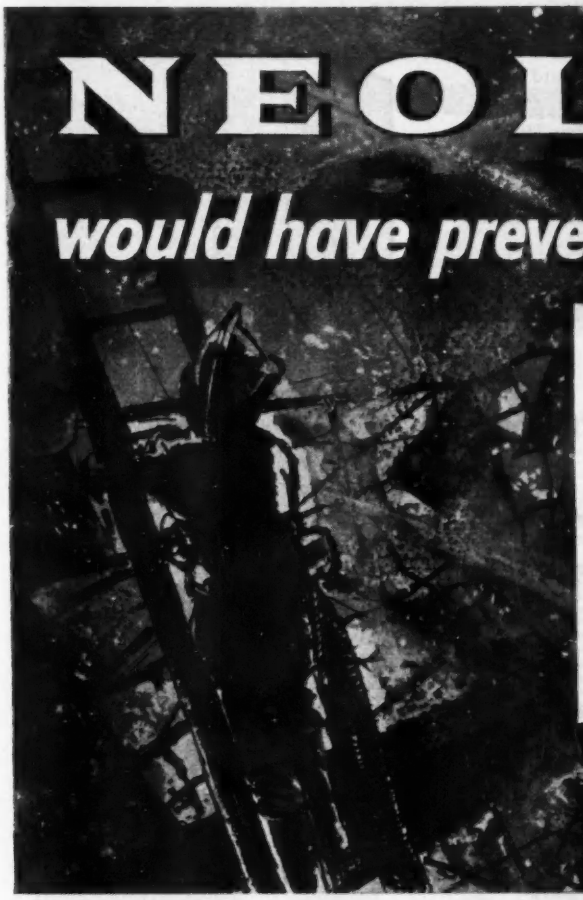

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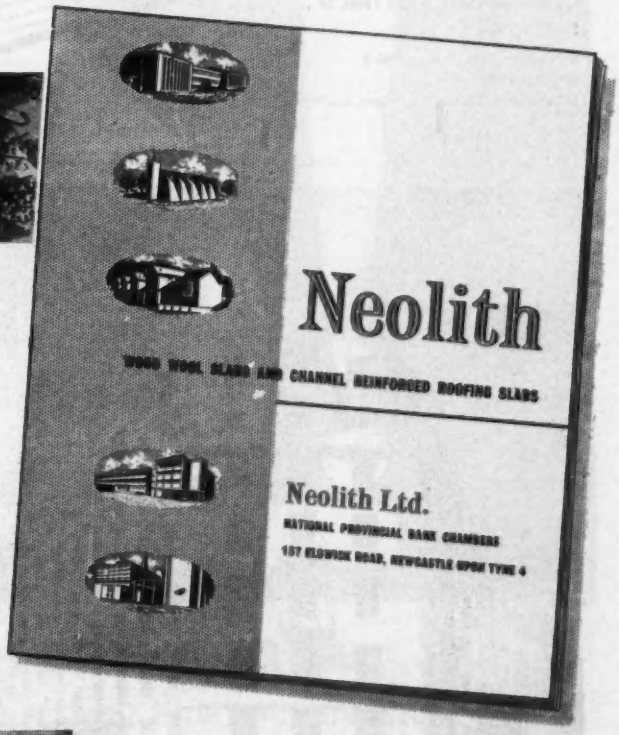

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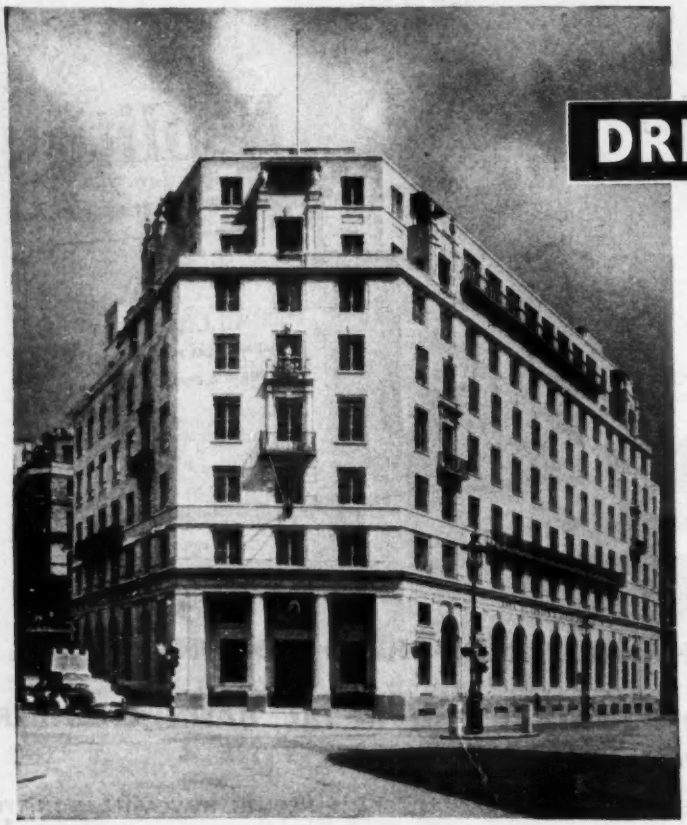

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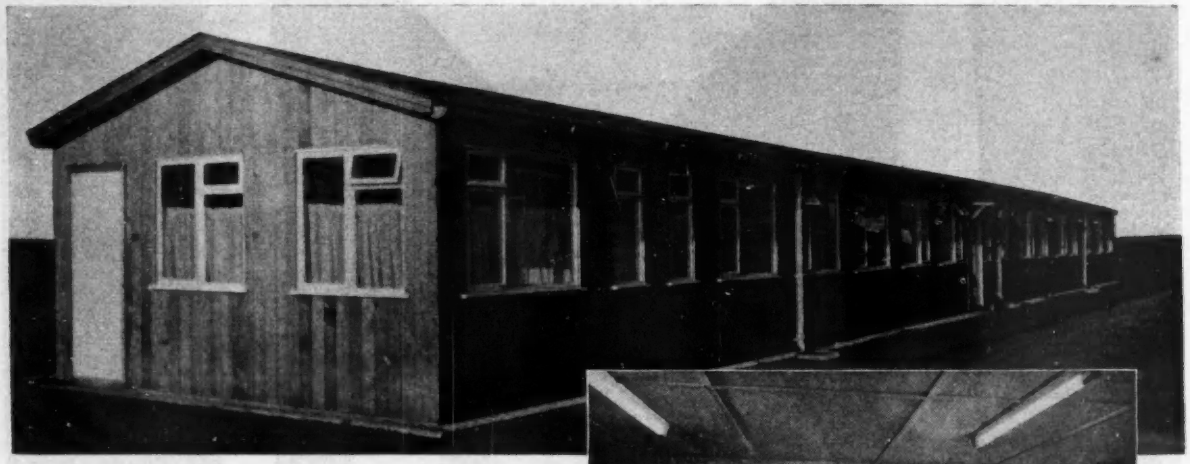

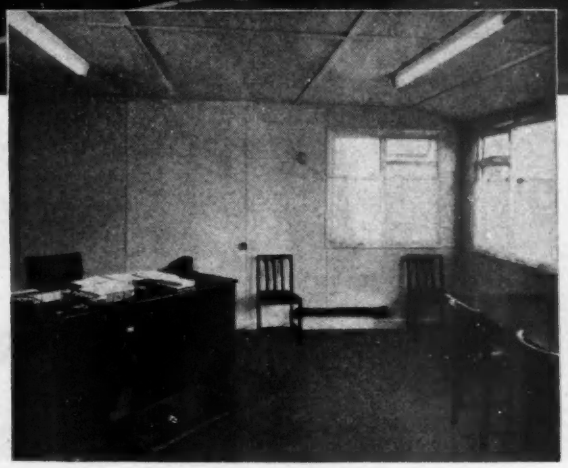

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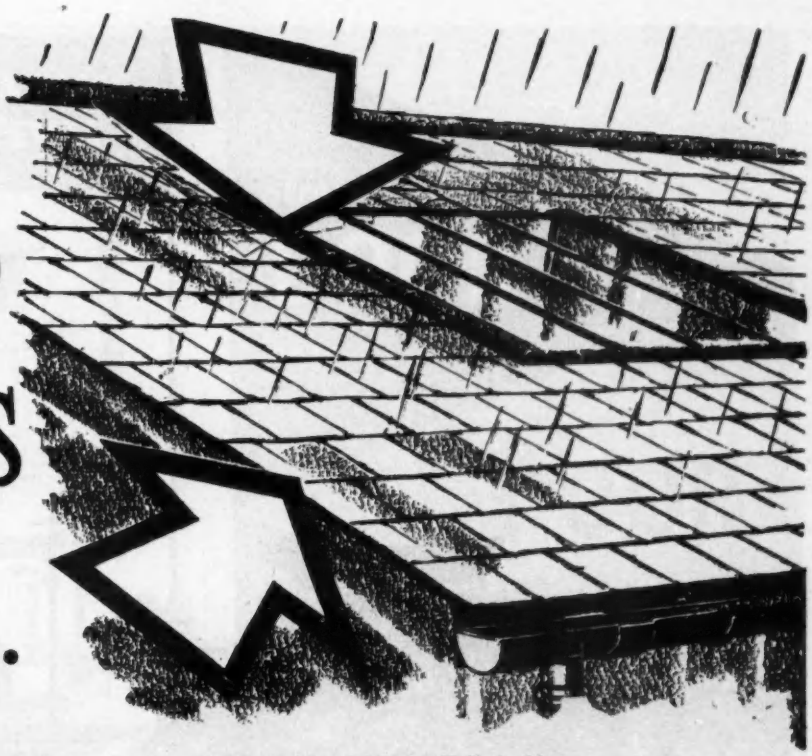

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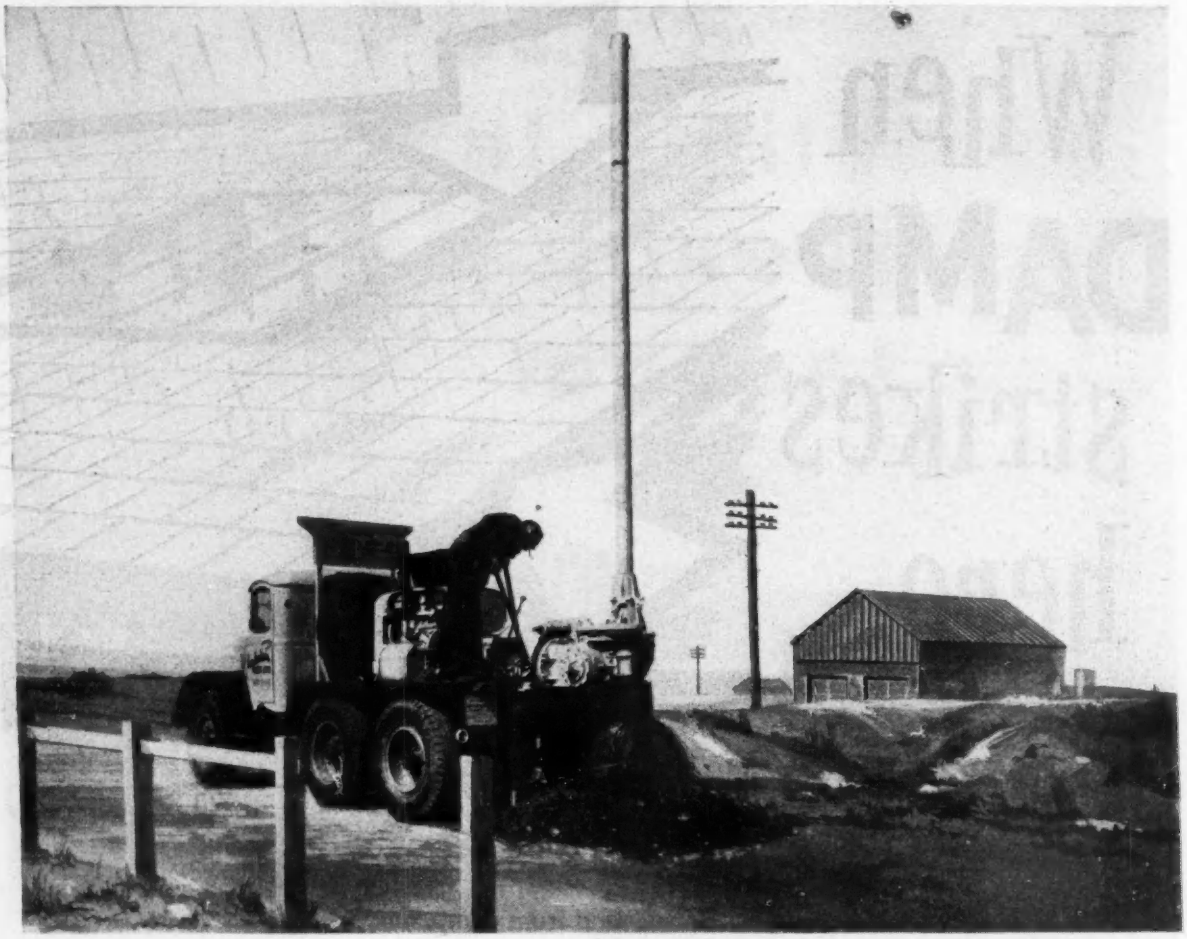

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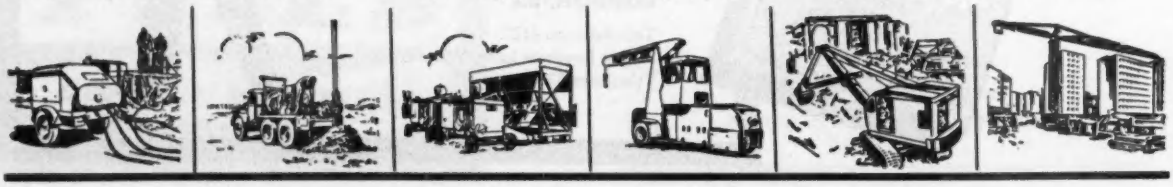

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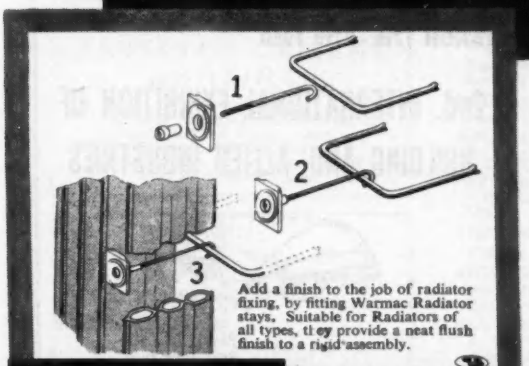

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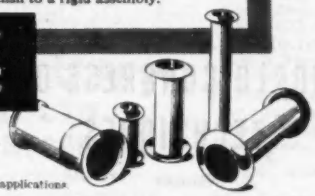

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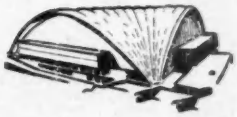

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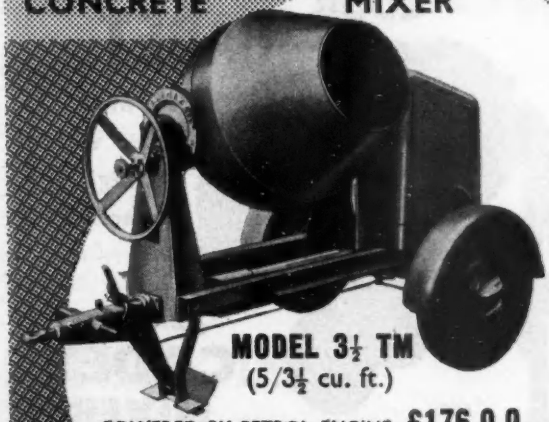

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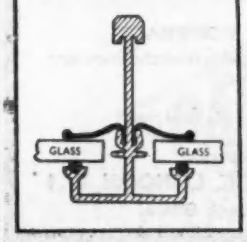

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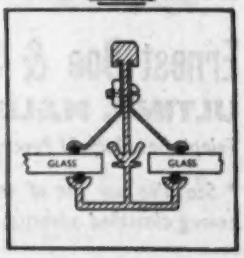

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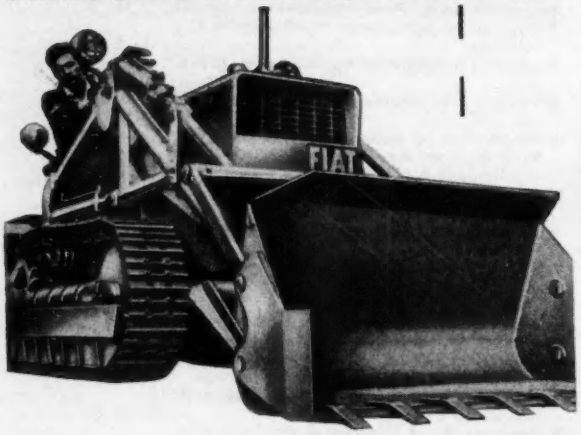

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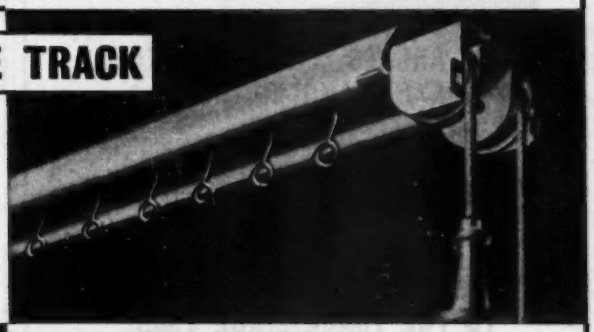

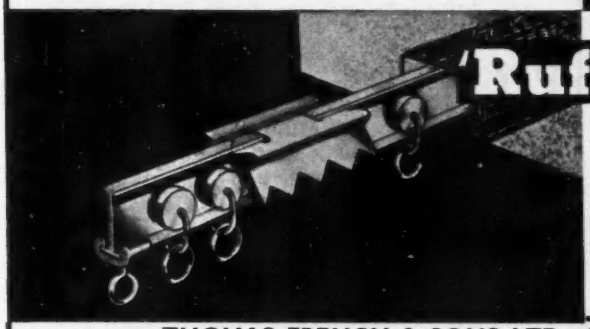

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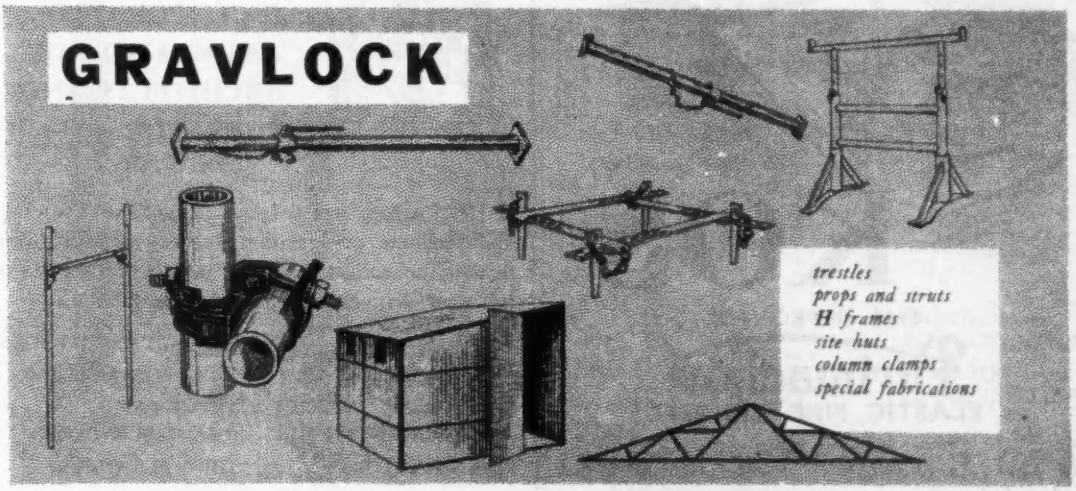

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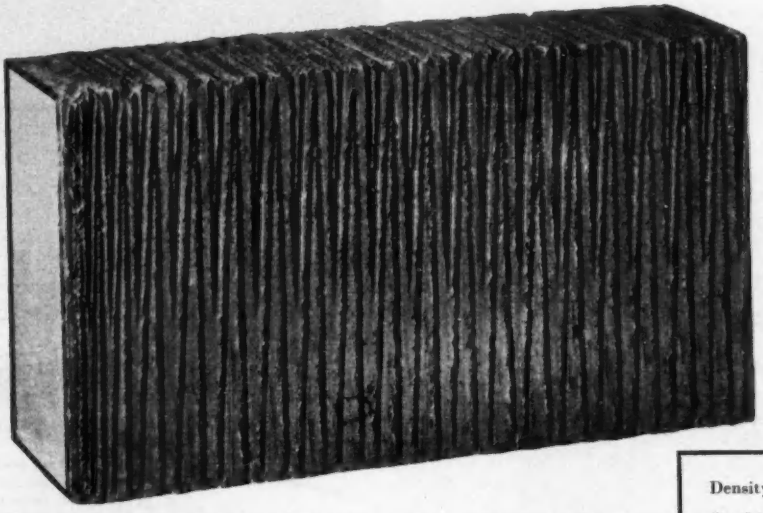

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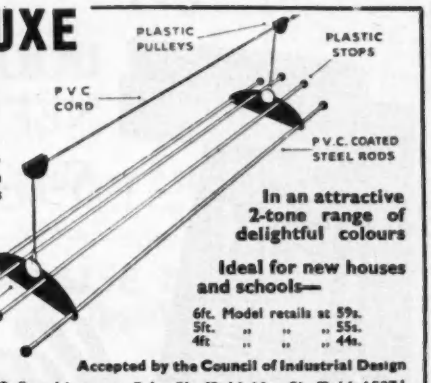

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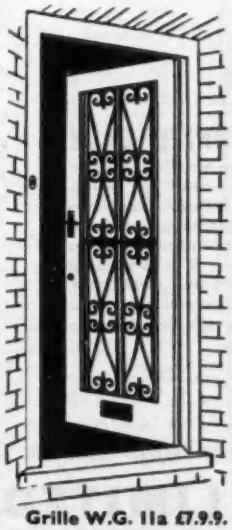

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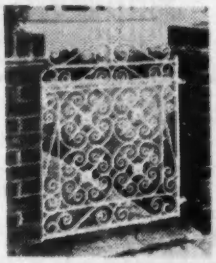

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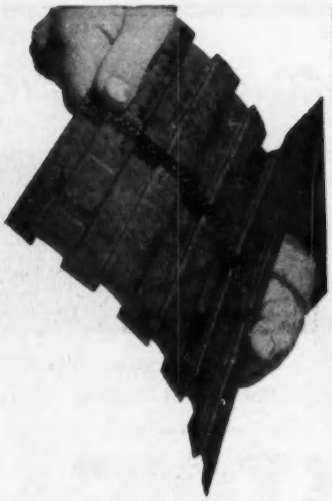

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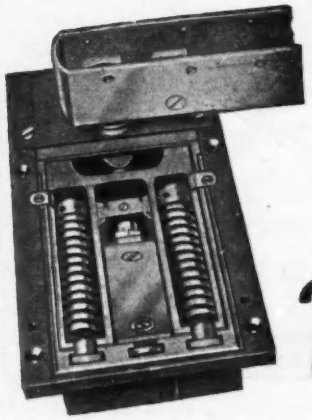

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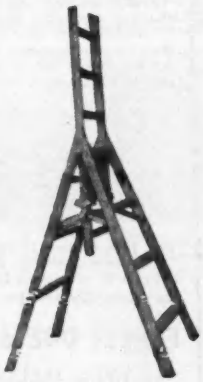

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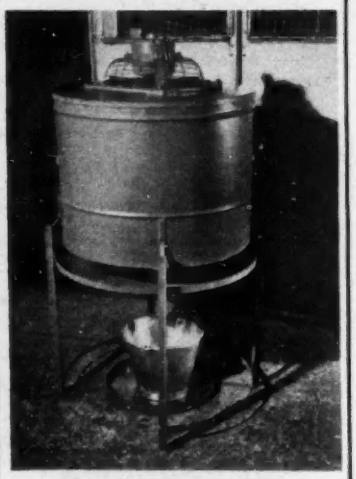

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QUANTITY SURVEYOR

Senior Quantity Surveyor required for preparing final accounts for a large section of the contract. Should be A.R.I.C.S., A.I.Q.S., or equivalent standard. Applications stating age, experience and when free should be sent to the Agent,

Mowlem (Scotland) Limited,
Hunterston Nuclear Power Station,
C/o G.P.O. West Kilbride, Ayrshire.

JUNIOR ASSISTANT QUANTITY SURVEYOR

Age 20–25, required by The Wiggins, Teape Group. Duties will include site measuring and working up with opportunity of taking off at a later stage. The position is permanent, pensionable and free lunches. Apply in confidence stating age, details of training, experience and salary to:

Chief Surveyor,
Surveyor's Department,
Wiggins, Teape & Co. Ltd.,
Gateway House,
1, Watling Street, London, E.C.4.

QUANTITY SURVEYORS

required by

SIR ROBERT McALPINE & SONS LIMITED

Senior takers-off, site surveyors and senior and junior workers-up required for preparation of Building and Civil Engineering Bills of Quantities in London and in South Wales. Interesting work. Excellent prospects. Good salaries.

Telephone:

Langham 0481—Extn. 41
Llanwern 531—Extn. 6

for interview.

ROBERT M. DOUGLAS (Contractors) LTD.

require

QUANTITY SURVEYORS

for Civil Engineering and Building Works in any part of Great Britain. Candidate must have had experience in interim and final valuations and be competent to negotiate at high level on Final Accounts upwards of £100,000. Pension scheme and excellent prospects for men of initiative and drive. Remuneration by arrangement. Write stating age, qualification, and experience to:

395 George Road, Birmingham, 23

SMALL progressive building firm (Middlesbrough area) capable of expansion, working in an area with vast potential, Require the services of a young QUANTITY SURVEYOR willing to undertake supervision of contracts and general organisation on sites. Genuine opportunity for man with imagination, initiative and young ideas. Apply stating salary required, qualifications and previous experience. Driving licence essential, transport provided. Applications will be treated with confidence.—Box 1850, "The Builder."

FIRM of Chartered Architects Require man with Quantity Surveying experience for Specifications, checking accounts and Valuations and preparing Bills for smaller jobs.—Write or 'phone DAWE, CARTER & PARTNERS, 33 Clarendon-road, Watford 27296.

LEADING National Building and Civil Engineering Contractors invite applications from

QUANTITY SURVEYORS

with experience in maintenance, conversion and new works in London area, or experienced in civil engineering.

ESTIMATORS

experienced in tendering for small-medium works in London area from own dimensions or Bills of Quantities.

Please send full details, in confidence, to Box 1869, "The Builder."

QUANTITY SURVEYORS Required by large firm of Building and Civil Engineering Contractors in their Edinburgh and Glasgow Offices. Good prospects for right personnel; bonus and superannuation scheme in operation.—Apply stating age, experience, etc., to Box 1678, WOOLWARD ADVERTISING Ltd., 86a George-street, Edinburgh.

ASSISTANT, Inter. R.I.C.S. standard, Required Chartered Quantity Surveyors, Oxford. Taking-off and Account Settlement in team initiating and setting over Contracts. Salary £600-£700.—Box 1874, "The Builder."

CHARTERED QUANTITY SURVEYOR (30-35). Required for key position in expanding practice, S.E. London, experienced in negotiation, estimating, and final accounts, with keen interest in cost planning. —Particulars, including present salary, to Box 1903, "The Builder."

ASSISTANT QUANTITY SURVEYOR urgently Required for Taking-Off and Settling Final Accounts in expanding Office.—Reply, stating age, salary required and experience, to R. M. POWELL, A.I.Q.S., Myrtle House, High-street, Sidmouth, Devon.

QUANTITY SURVEYOR, A.R.I.C.S. (age 25-35), Required by GLEEDS, 106 Regent-street, W.1.—Please write for appointment, giving details of experience and salary required.

ASSISTANT QUANTITY SURVEYOR. Intermediate/Final R.I.C.S. standard, Required by West End Quantity Surveyors.—Please reply, with details of experience, age and salary required, to Box 1947, "The Builder."

CHARTERED QUANTITY SURVEYOR Required for London Office. Varied and interesting work including Industrial Buildings, Offices, Laboratories, etc. Salary £1,100-£1,300 p.a.—Write stating age and experience to OVE ARUP & PARTNERS, Consulting Engineers, 13 Fitzroy-street, W.1, or telephone: MUS 1531.

QUANTITY SURVEYOR Required in Manchester Office.—Apply F. TAYLOR & Co. Ltd., Contractors, Littleborough.

SENIOR ASSISTANT

Required for London firm of Chartered Quantity Surveyors. Salary up to £1,350 per annum, according to age and experience. L.Vs.; 5-day week; overtime paid and Pension scheme.—Please apply to Box 1747, "The Builder."

CO-OPERATIVE WHOLESALE SOCIETY LTD. ARCHITECT'S DEPARTMENT, MANCHESTER.

Applications are invited for appointments as QUANTITY SURVEYORS. SENIOR ASSISTANTS Required for taking-off. Membership of the R.I.C.S. is desirable but not essential. JUNIOR ASSISTANTS with some knowledge of taking-off. Pension scheme and five-day week. Applications, stating age, experience and salary required to G. S. Hay, F.R.I.B.A., Chief Architect, CO-OPERATIVE WHOLESALE SOCIETY, Ltd., 1 Balloon-street, Manchester, 4.

JAMAICA. Young qualified ASSISTANT Required for progressive situation. 3-year contract. Commencing salary £1,250 p.a. plus overtime. Passage paid.—Box 1651, "The Builder."

SITE QUANTITY SURVEYOR

for long-term contract at NEWPORT, Mon., Required by firm of Chartered Quantity Surveyors. Rented accommodation available. Similar appointment exists in PORT TALBOT office.—Apply stating age, experience and salary required to Box 1745, "The Builder."

QUANTITY SURVEYOR with thorough experience of final account work Required by London Chartered Quantity Surveyors. Progressive post with good salary.—Apply, stating age, experience and salary required, to Box 909, "The Builder."

W. & C. FRENCH LTD. urgently Require QUANTITY SURVEYORS aged 25-35 with experience of Civil Engineering and Building contracts, for site work within a radius of 25 miles of Buckhurst Hill.—Apply in writing, stating age, experience and salary required, to Personnel Manager, 50 Epping New-road, Buckhurst Hill, Essex.

ASSISTANT QUANTITY SURVEYOR studying for Final R.I.C.S. Must be experienced in site measuring and final accounting work; salary by arrangement.—Write, stating age, experience, qualifications, etc., OVE ARUP & PARTNERS, Consulting Engineers, 8 Fitzroy-street, London, W.1.

SITE QUANTITY SURVEYOR

for long-term contract in SWANSEA and LLANELLY, Required by firm of Chartered Quantity Surveyors.—Apply stating age, experience and salary required to Box 1746, "The Builder."

MANCHESTER Chartered Quantity Surveyors Require experienced ASSISTANT, A.R.I.C.S. preferred. State salary required.—Box 1716, "The Builder."

QUANTITY SURVEYOR Required by Civil Engineering Contractor based on North London. Applicants with experience on Civil Engineering Contracts preferred and should be experienced in all aspects of valuations, variations, final accounts, etc. Initiative and drive are an essential requirement for this position.—Write, giving age, full particulars of past experience, and indication of salary, to Ref. CL., Box 1714, "The Builder."

G. PERCY TRENTHAM Ltd. Require experienced site QUANTITY SURVEYORS for Building and Civil Engineering Contracts. Good conditions of employment and good prospects for suitable men.—Apply, giving details of experience, etc., to Chief Surveyor, G. PERCY TRENTHAM Ltd., Pangbourne, Reading.

LONDON based B. & C.E. Contractor's QUANTITY SURVEYOR with experience in preparation of extra-costs principally under "I.C.E. Conditions" to work with section senior surveyor. Scope for analytical and legal methods in handling contract issues. —Please write in confidence for interview, must state age, qualifications, experience, responsibility held, salary, pension, etc., to Box 1741, "The Builder."

CHARTERED Quantity Surveyors Require ASSISTANT/QUALIFIED ASSISTANT for London office. Five-day week, luncheon vouchers.—Reply stating full experience and salary required to S. W. APPLEYARD & PARTNERS, 16 John-street, W.C.1.

EXPERIENCED TAKER-OFF/ MEASURING SURVEYOR,

A.R.I.C.S. preferred, for Chartered Quantity Surveyors site office in North Lincolnshire.—Apply stating age, experience and salary required to Box 1748, "The Builder."

SENIOR QUANTITY SURVEYORS Required for large civil engineering contracts in the Midlands and Southern areas. Excellent propects for keen first-class surveyors, pension scheme, etc.—Reply stating full details of age, experience and salary required, to M. J. GLEESON (CONTRACTORS) Ltd., C.E. Dept., Haredon House, London-road, North Cheam, Surrey.

SURVEYORS

SURVEYOR Required by S.W. London Contractors. Applicants should be experienced in preparation of interim certificates, measurement of sub-contractors' work, final accounts, etc., chiefly on housing schemes. Must be car driver.—Box 1809, "The Builder."

A VACANCY exists with well known Building and Civil Engineering Contractors in Birmingham for a SENIOR SURVEYOR with sound knowledge and experience of Interim Valuations and Final Accounts. A salary range of £1,250-£1,500 will be offered to the applicant of proven ability, possessing initiative and drive. Pension and Bonus Schemes in operation. —Full particulars to Box 1834, "The Builder."

BONUS SURVEYORS Required, experienced in measuring and applying incentive scheme for building contracts in London.—Write, giving details of experience, age and salary required, to: KIRK & KIRK LIMITED, Atlas Works, Putney, S.W.15.

QUANTITY SURVEYORS with headquarters on the South Coast, Require ASSISTANTS at Wimbledon and Bognor Regis for taking-off, but who are also prepared to work-up and to measure final accounts if required.—Reply to ALEX SAYER & PARTNERS, F.F.S., Arcade Chambers, Bognor Regis, Sussex, stating experience and salary required.

SURVEYOR Required by Building Contractors for estimating, interim payments to final accounts. Age 25-35 years.—Apply in writing stating experience, qualifications and salary required to E. P. WICKENS & SONS Ltd., 93 Eastworth-road, Chertsey, Surrey.

QUANTITY SURVEYORS Require SENIOR SURVEYOR in Birmingham area for settlement of Final Accounts. Permanent position with superannuation. Commencing salary £1,000 per annum or according to experience.—Box 1556, "The Builder."

MEASURING SURVEYOR Required for City Chartered Quantity Surveyor's office. Pension and life assurance scheme.—State age, experience and salary to Box 1582, "The Builder."

ASSISTANT Required for cost planning and estimating by Westminster firm of Chartered Quantity Surveyors. Some estimating experience in Builder's or Surveyor's office essential. Good prospects. Pension scheme.—Write full particulars to Box 1617, "The Builder."

CHARTERED Quantity Surveyors Require, for London office, ASSISTANT, 25-30ish, who is not merely a competent Taker-off, but who also knows how—and is not too proud—to Work-up as well. 5-day week, L.Vs, and opportunities for 18-month tours overseas at considerably higher salary plus free living.—Write, stating U.K. salary required, to Box 1621, "The Builder."

JUNIOR SURVEYOR Required for site measuring in London Area.—Apply stating age, experience and salary required to MESSRS. A. T. ROWLEY (LONDON) LIMITED, Cambridge Works, Lordship-lane, Tottenham, N.17. TOTtenham 3611.

MESSRS. OSWALD E. PARRATT Require experienced MEASURING SURVEYOR for their Harlow Office. Five-day week; Pension Scheme. Service agreement to suitable applicant. Housing accommodation may be available.—State age, experience and salary required to Adelaide House, London Bridge, E.C.4.

EXPERIENCED SITE SURVEYOR for Final Accounts in professional Quantity Surveyors' office in Westminster area. Good salary and prospects for right man. Lunch Vouchers.—Apply Box 995, "The Builder."

SENIOR SURVEYOR and CONTRACTS MANAGER Required by London Building Contractors. —Apply stating experience, age, and salary required. Box 1483, "The Builder."

MEASURING SURVEYOR/TAKER-OFF for London Quantity Surveyors, able to handle Interim Valuations, Deviations and Final Accounts. Must be willing to travel. Salary according to experience and ability.—Box 934, "The Builder."

WIMPEY

invite applications for the following Head Office appointments.

TECHNICAL WRITERS

for work in connection with specifications for all types of building and civil engineering projects.
Training will be given, but applicants should have a sound knowledge of construction, preferably with Architectural or Q.S. background.

WORKERS-UP

(all grades)

for Quantity Surveying Office, where as much routine work as possible is done by machines and where hard work, loyalty and initiative are rewarded by prospects and salary.

TAKERS-OFF

Assistant and Senior

for work in connection with all types of domestic, industrial and civil engineering works at home and overseas.
Applicants, professional or contractor trained, must be adaptable and quick workers with sound practical and commercial approach.

Five-day week, restaurant facilities, good working conditions.
Interviews by appointment (out of office hours if necessary).

Write in first instance, in confidence, giving details of past experience and salaries to:

G. S. Vickery,
GEORGE WIMPEY & CO., LIMITED,
27, Hammersmith Grove, London, W.6.

MEASURING SURVEYORS

who are prepared to be responsible for contracts in London and the Provinces, from site survey to final account, are required by a National Contractor, to be based at Head Office in London.

The situation offers scope for ambitious young men. Opportunities for promotion and a good salary. Successful applicants will share in the annual staff bonus and join an existing Pension Scheme. Salary will be reviewed regularly. Good allowances when travelling.

Apply in writing, giving age and experience to:

Box 1535 "The Builder"

SENIOR & JUNIOR QUANTITY SURVEYOR

required in Quantity Surveying section of Architect's combined practice in Victoria Street, S.W.1. Interesting and varied work offering scope for gaining experience in all aspects of professional practice, particularly in co-operating with allied professions in the building industry. Only those seeking permanent positions need apply.

The senior position calls for responsibility and initiative with ability to work with minimum supervision. Five day week, luncheon vouchers and voluntary contributory pension scheme in operation. Please reply stating age, qualifications, experience and names of referees if required to

Box No. 1807.

SUPERVISING SURVEYOR

(Age 30/35)

Alterations and Decorations (Small Works). Able to estimate and organise own contracts. Good salary and annual bonus on results. Free Pension Scheme.

Box No. 1630, "The Builder"

SENIOR AND ASSISTANT BUILDING SURVEYORS Required in the London, Home Counties and Southern Counties area. These positions are permanent, progressive and superannuated.—Write, giving full detail's, experience, age, salary required and area preferred, to the Chief Surveyor, SIR LINDSAY PARKINSON & CO. Ltd., 6 Lambeth-road, London, S.E.1.

JUNIOR SURVEYOR with site measuring experience Required to work in the Main Office. Permanent, pensionable situation and sound progressive opportunities offered to the right type of applicant.—Reply, stating age, experience and salary, to J. M. HILL & SONS (AMPTHILL), Ltd., Ampthill, Bedfordshire.

BUILDING SURVEYOR Required by private firm in South West England for conversion and modernisation of property, repairs and improvements, including ecclesiastical work. Experience of ancient buildings useful. Salary in the range £1,000 to £1,250 p.a.—Apply stating age, experience and qualifications to Box 1756, "The Builder."

BUILDING SURVEYOR with experience in writing Specifications, supervising building work, reasonable draughtsman. Required in West End Architect's office; 5-day week. —Box 1757, "The Builder."

BUILDING SURVEYOR. Intermediate standard with minimum of two years' good office experience. Required for Architect's and Surveyor's office. Used to Specifications and small Building Contracts, some drawing ability an advantage. Five-day week, luncheon vouchers. Salary according to experience up to £700 per annum.—Please reply to Box 918, "The Builder."

CHARTERED Quantity Surveyors Require JUNIOR ASSISTANT.—Applications in writing, stating age, qualifications, experience and salary required, to FRANK N. FALKNER & PARTNERS, Chartered Quantity Surveyors, Windscale Works, Seascale, Cumberland.

SURVEYOR Required by expanding Company in North London. Must be conversant with housing and flat development. Drive and initiative essential. Car owner.—W. REED & CO., Ltd., 216-220 Regents Park-road, Finchley, N.3.

BUILDERS' SURVEYORS Required, capable of handling contracts from £5,000/£250,000, must be experienced in Taking-off and ordering materials from Bills of Quantities, interim certificates and final accounts.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

PRODUCTION SURVEYOR, age between 20 and 27 required by progressive South London Building and Civil Engineering firm for work on site in the Southern Counties. Duties involve site measurement, calculation of incentive payments, and the preparation of weekly cost reports. Applicant should have a craft or technical qualification or at present be studying for O.N.C. or H.N.C. and should have a keen interest in improved site methods. The position is permanent and admission to the company's pension scheme will be granted after a probationary period. The salary which is progressive would start at £12-£16 per week.—Please apply stating age, previous experience, and studies undertaken, to CROUDACE Ltd., 97 Godstone-road, Caterham, Surrey.

SUPERVISORS/SURVEYORS Required by progressive building contracting company, Weybridge. Not more than 35 years of age. Excellent opportunities to men with initiative.—Full particulars to Box 1851, "The Builder."

CUBITTS

COST SURVEYORS

required immediately

Must be experienced in measuring completed site works for the purpose of unit costing, and assessment of targets. Permanent and pensionable positions with good prospects.

Apply in confidence stating age, experience in detail and salary required to

PERSONNEL MANAGER
HOLLAND & HANNEN AND CUBITTS
(GREAT BRITAIN) LTD.,
1 Queen Anne's Gate,
London, S.W.1.

ASSISTANT SURVEYOR

for the head office of C. J. SIMS LTD., Building & Civil Engineering Contractors. Age 20-25. Applicants must be experienced in all phases of building surveying, from site measuring to preparation of final accounts. Apply, in confidence, giving age, complete details of training, experience and salary required to:

C. J. SIMS LTD.,
2 Victoria Street, S.W.1.

ASSISTANT BUILDING SURVEYOR

required by large established Speculative Building Contractors to work at their Head Office in Kingston-on-Thames area.

There are excellent prospects, opportunities and superannuation scheme for an ambitious and conscientious man.

Write giving details of age, experience and salary required to:

Box No. 1853, "The Builder"

SURVEYORS, ESTIMATORS and ASSISTANT BUYERS

required by a leading and Expanding Company of Estate Developers operating mainly in the Home Counties.
The positions offered are progressive and prospects are unlimited for THE RIGHT APPLICANT. Only men with previous building trade experience need apply for these positions which carry salaries of up to £1,000 per annum.
Write stating age, experience and brief details of past career to

Box No. 1950, "The Builder"

BUILDERS' SURVEYORS

1. For Small Works Department experienced in estimating alterations, decorations and repairs, aged 25–35 years to train as future Manager of the Department.
2. Junior aged 20–25 years to assist Senior Surveyors in Estimating and Surveying Department.

Applications in writing giving full details of training and experience and stating approx. salary required to **CHARLES S. FOSTER & SONS LTD., LOUGHTON, ESSEX.**

MEASUREMENT SURVEYOR

RICHARD COSTAIN LIMITED have a vacancy for a Measuring Surveyor to work on a large long term contract in the Essex area.

Applications are invited from men preferably aged 27-35 with at least 5 years experience of site measurement and the preparation of interim and of final accounts. Previous experience of Civil Engineering work an advantage.

Please write to Personnel Officer :—

111 WESTMINSTER BRIDGE ROAD, LONDON, S.E.1

BUILDING SURVEYOR with experience in writing Specifications, supervising building work, reasonable draughtsman, Required in West End Architect's office; 5-day week. Salary £1,000 p.a.—Box 1757, "The Builder."

BUILDER'S SURVEYOR wanted for old-established Tyneside Contractors. Must have all-round experience quantities, measuring, final accounts and possess initiative. Outstanding pension scheme after trial period.—Write full particulars, when available and salary required to Box 1826, "The Builder."

SURVEYOR Required by old-established Contractors specialising in Reinforced Concrete and finishings of Tiling Marble and Terrazzo. Experienced in taking-off and measuring for final account. (Salary in the region of £1,000.) The position is permanent and pensionable.—Write fully, experience and age to Box 952, "The Builder."

BONUS SURVEYORS. MOWLEM (SCOTLAND) LIMITED, Require a BONUS SURVEYOR for the Reactor Section in a Nuclear Power Station contract.—Applications, in confidence, stating age, full details of qualifications and experience, etc., to the Agent, MOWLEM (SCOTLAND), LIMITED, Hunterston Nuclear Power Station, West Kilbride, Ayrshire.

PLASTERING CONTRACTORS Require experienced SURVEYOR. Permanent pensionable position for suitable applicant.—Write stating age, experience, and approximate salary required to: The Office Manager, JONATHAN JAMES Ltd., 52-54 Putney High-street, London, S.W.15.

SURVEYOR/ESTIMATOR Required by medium-sized Contractor in Victoria. Must be fully experienced in all surveying and estimating duties for Contracts up to £150,000. Five-day week, superannuation after satisfactory probationary period.—Apply, stating age, experience and salary required to Box 1875, "The Builder."

GEORGE CALVERLEY & SONS (CONTRACTORS) LTD.

Evington Valley Road, Leicester

invite applications for the following positions, which are permanent and pensionable, in their General Contracting Division at Head Office:—

Two Senior Quantity Surveyors capable of preparing interim valuations and final accounts.

One Experienced Buyer to be responsible for all purchases and Sub-Contractors.

One General Foreman capable to supervising work up to £200,000, using modern planning and management techniques. Knowledge of R.C. work essential.

One Working Foreman to supervise contracts up to £20,000.

Gangers with knowledge of concreting and excavating.

Apply to The Secretary,

George Calverley & Sons (Contractors) Ltd.,
Evington Valley Road, Leicester

We want a really keen

Assistant Building Surveyor

and have the organisation and opportunities to make the position attractive. We are a medium-sized and rapidly expanding firm of Contractors and Developers with offices in South West London. Salary bears comparison with any. Pension scheme available. Applicant must be capable of accurate taking-off for materials ordering and working up accounts.

Write, stating age, experience and salary required.

Box 1890, "The Builder"

BONUS SURVEYOR Required for large London contract, good prospects and salary for experienced man; pension scheme.—Apply Planning Officer, THE UNIT CONSTRUCTION Co. Ltd., Central-way, Faggs-road, Feltham, Middlesex.

MEASURING SURVEYOR Required for W.D. Schedule Works in Midlands. Must be willing to travel. Sound knowledge A.M. and W.D. Contract procedure essential.—Reply, giving details of experience, salary required, etc., Box 1925, "The Builder."

EXPERIENCED SURVEYOR Required, S.W. London, to measure and prepare L.C.C. Maintenance Accounts.—Apply, stating experience, age and salary required, to Box 1691, "The Builder."

JUNIOR ASSISTANT Required by London Chartered Quantity Surveyors. Good prospects for an applicant who can give evidence of a sound education and who wishes to qualify in the profession.—Apply to Box 1919, "The Builder."

GOOD position available for SURVEYOR wishing to specialise in estimating and final accounts with old-established City contractors.—Box 1957, "The Builder."

MEASURING SURVEYOR

Required for High Class Contracts by Oxford Company with expanding business, able and ambitious man, capable of assuming increasing responsibility

Work consists of measuring own work, work of specialist Sub-Contractors, certifying payments on account, dayworks, preparation of variation claims and interim valuations.

Pension and Life Assurance after probationary period

Accommodation available in Oxford

Apply in writing, giving full details of experience and age, to

Box No. 1907, "The Builder"

ASSISTANT SURVEYORS

ASSISTANT CONTRACTS SURVEYOR Required, north-west London, measuring subcontractors' work, variations.—Apply stating age, experience and salary required to Box 1835, "The Builder."

ASSISTANT BUILDING SURVEYOR Required in A Surveyor's Department of guest house organisation. Office N.W. London. Assist generally with maintenance repairs and small building works. Salary £500-£600. Superannuated post.—Apply with full particulars to Box No. 3615, EDGAR DUNSTAN & CO., Drayton House, Gordon-street, W.C.1.

SOUTHSEA Chartered Quantity Surveyors Require ASSISTANT SURVEYOR for Taking-off and local site measuring. Permanent position with expanding firm having widespread commitments. Non-contributing life assurance and pension scheme for permanent staff.—Write stating age, experience and salary required, THOMAS, JOLLY, GRANT & KELSEY, Architects and Surveyors, 26 Kent-road, Southsea, Hants.

ASSISTANT BUILDING SURVEYOR Required for varied and interesting work in new department of expanding company. Must be experienced in taking-off materials for ordering and conversant with all other aspects of surveying. Progressive and permanent position. Man aged 25 to 30 preferred.—Apply by letter stating age, experience and salary required, to Box 1690, "The Builder."

ASSISTANT SURVEYORS (aged 22-27) Required for varied and interesting work including Taking-off, site measuring, estimating, bonusing, planning and job management in all classes of building work. Experience in all fields not essential. Excellent prospects to progress with this expanding group of Companies.—Apply to Mr. Lott, R. D. HOPE & CO. Ltd., 15 Selsdon-road, South Croydon, Surrey. CROydon 9262.

ASSISTANT SURVEYORS Required by long-established firm of Building Contractors. Permanency and prospects for the right applicants; must be competent in preparing records and measuring for final and sub-contractors' accounts.—Apply in writing stating age and experience to the Secretary, C. MISKIN & SONS, Ltd., Romeland House, St. Albans, Herts.

ASSISTANT BUILDING SURVEYOR Required for varied and interesting work in Planning Department with knowledge of taking-off materials for ordering, and able to compile Material Schedules.—Box 1852, "The Builder."

ASSISTANT SURVEYOR Required with sound experience of simple conversion schemes, works of maintenance nature, dilapidations and compensation claims including plans, specifications, estimates and accounts. Commencing salary £600/£700.—Reply HUGHESDON & HINDS, Chartered Surveyors, 4 Abingdon-road, Kensington High-street, W.8.

H. FAIRWEATHER & CO., LTD.

have a vacancy for an

ASSISTANT SURVEYOR

to be resident on a large Reinforced Concrete Contract in Bournemouth. Reply to the Personnel Manager,

H. Fairweather & Co., Ltd.
Hyde Works, St. James's Lane,
Muswell Hill, London, N.10.

ASSISTANT BUILDING SURVEYOR Required.—Submit brief details of past experience and state age and salary to HAROLD SELBY & Co., 98-100 City-road, E.C.1.

ASSISTANT BUILDER'S SURVEYOR for Small Contracts Department which specialises in handling contracts up to £20,000. Would suit a young man who has had two or three years' experience with a small builder and who has had some surveying training.—Apply, stating age, experience and salary required, to Personnel Manager, FORD & WALTON, Ltd., Walton House, Warton-road, E.15.

ASSISTANT SURVEYOR Required for old-established West End Flooring business. Good salary and prospects for right applicant, car driver an advantage. Write full particulars stating age, experience and salary required.—Box 1915, "The Builder."

JUNIORS

QUANTITY Surveyors (London, West End) Require JUNIOR, school leaving age. Good prospects in busy office. Time off for study.—Apply in own handwriting, giving age and details of education, Box 1942, "The Builder."

TAKERS OFF

TAKER-OFF (recent A.R.I.C.S. or this year's finalist) Required by Chartered Quantity Surveyors near Victoria Station. Pension Scheme. Luncheon Vouchers.—Write full particulars, Box 1814, "The Builder."

TAKER-OFF Required by Chartered Quantity Surveyor's Office, near Victoria. L.V.s; five-day week.—Write in own handwriting giving details of experience and salary required.—Box 1536, "The Builder."

CHARTERED QUANTITY SURVEYORS have vacancies for JUNIOR TAKERS-OFF in their Portsmouth and Isle of Wight offices. Applicants must have at least passed the Intermediate examination of the R.I.C.S.—Write giving personal details to Box 1678, "The Builder."

SENIOR TAKER-OFF Required by London Chartered Quantity Surveyor.—Please write stating age, experience and salary required to Box 964, "The Builder."

TAKERS-OFF Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 916, "The Builder."

TAKER-OFF of Intermediate to Final standard Required by Westminster Quantity Surveyors. Excellent prospects in London Office and opportunities for overseas tours.—Apply, stating age and experience, Box 923, "The Builder."

SENIOR TAKER-OFF Required by firm of Quantity Surveyors in Victoria area. Varied work and excellent prospects.—Apply with brief details of qualifications and experience, Box 927, "The Builder."

MANCHESTER Quantity Surveyors (London Firm) Require TAKER-OFF. Need not be qualified but must be thoroughly experienced. Five-day week. Paid overtime. Pension Scheme.—Box 924, "The Builder."

SENIOR TAKERS-OFF Required in Bloomsbury Chartered Quantity Surveyors' Office. First-class working conditions, including Luncheon Vouchers and pension scheme, with good prospects offered to suitable applicants.—Apply, stating age, qualifications, academic background and salary required, to Box 1559, "The Builder."

ASSISTANT TAKERS-OFF

Chartered Quantity Surveyors, near Victoria Station, urgently require Assistants of Intermediate standard and above for large and varied programme. Write stating age, experience and salary required to

Box No. 1720, "The Builder"

JUNIOR TAKER-OFF, Intermediate standard, Required by Chartered Quantity Surveyors near London Bridge. Five-day week, Pension scheme.—State age, experience and salary to Box 1581, "The Builder."

MANCHESTER. Quantity Surveyors (London Firm) Require Staff. Good salary. Overtime. Pension Scheme. Five-day week. (a) SENIOR TAKER-OFF. Must be experienced man. (b) SENIOR MEASURING SURVEYOR. For duties on Final Accounts. (c) SENIOR WORKER-UP. Must be experienced man. Willing to take responsibility.—Box 926, "The Builder."

TAKER-OFF/MEASURING SURVEYOR (taking Final this year or recent A.R.I.C.S.), single, car or cycle licence, Required for long-term appointment in branch Site Office in Berkshire by London Chartered Quantity Surveyors. Tax free subsistence allowance. Superannuation Scheme. Five-day week.—Write full particulars to Box 1612, "The Builder."

WAKEMAN, TROWER AND PARTNERS,
Quantity Surveyors, St. Paul's House, St. Paul's Street, Leeds, 1, require the following staff :—

SENIOR TAKER OFF Salary £1,000-£1,500 p.a.
JUNIOR TAKERS OFF, SITE SURVEYORS Salary £650-£950 p.a.
SENIOR WORKER UP Salary £750-£1,000 p.a.
JUNIOR WORKER UP Salary £450-£600 p.a.

TAKER-OFF Required for City Chartered Quantity Surveyors. Pension scheme.—State age, experience and salary to Box 1580, "The Builder."

JUNIOR and SENIOR TAKERS-OFF Required by London Chartered Quantity Surveyors.—Box 1619, "The Builder."

AUSTRALIA, SYDNEY. Experienced TAKER-OFF Required for 3-year contract. £A1,800, £A1,900, £A2,000 plus considerable overtime. Fares to Australia paid. Continuation contract probable if required.—Box 1652, "The Builder."

EXPERIENCED TAKER-OFF Required in Quantity Surveyor's Office.—Reply stating age, experience and salary required to E. R. BABBS & SONS, 187 Piccadilly, London, W.1.

JUNIOR TAKER-OFF, approaching final standard, for small firm; progressive position on varied work. State age, experience and salary required to S. J. FLOOD, 2 Lowndes-street, S.W.1, or 'phone: Belgravia 3512.

SENIOR TAKER-OFF Required by Quantity Surveyors in Victoria area for varied types of Contracts from taking-off to final account. Very good prospects for advancement; pension scheme; Luncheon Vouchers.—Write stating age, experience and salary required, Box 1653, "The Builder."

TAKER-OFF Required by Chartered Quantity Surveyors in Reading area.—Apply Box 1558, "The Builder."

CAMBRIDGE. Chartered Quantity Surveyors Require a JUNIOR TAKER-OFF and a WORKER-UP. Good prospects and salary.—Write, giving details of experience, to DAVIS, BELFIELD AND EVEREST, 2 Jesus-lane, Cambridge.

JUNIOR TAKER-OFF MEASURING SURVEYOR Required. L.V.s, Pension Scheme; opportunities for advancement.—Write stating age, experience and salary required to ERIC G. LYNDE & PARTNERS, 41 Russell-square, W.C.1.

SENIOR TAKER-OFF/MEASURER Required to take charge of Quantity Surveyor's busy site office near Manchester. Commencing salary £1,500 p.a.—Box 1719, "The Builder."

SENIOR AND JUNIOR TAKERS/OFF Required by London Chartered Quantity Surveyors. Salary scales up to £1,500 p.a. and £1,100 p.a. respectively.—Write age, experience and salary required to Box 1721, "The Builder."

JUNIOR TAKER-OFF
Required by firm of Chartered Quantity Surveyors in London (A.R.I.C.S. preferred). Salary £750-£950. Pension scheme. L.Vs.—Please write stating age, experience and salary required to Box 1749, "The Builder."

LONDON firm of Chartered Quantity Surveyors Require experienced TAKERS-OFF and WORKERS-UP for long-term contracts in South Wales.—Please apply stating age, experience and salary required to Box 1750, "The Builder."

TAKER-OFF, Intermediate/Final R.I.C.S. or equivalent standard, Required in Quantity Surveyor's Department of London Brewery. Varied and interesting work on new public houses, industrial buildings, major alterations, etc. This is a permanent position, offering good prospects to a suitable candidate, who should preferably be Quantity Surveyor trained.—Apply giving full particulars of experience to date, age, salary required, etc., to Box 1761, "The Builder."

EXPERIENCED TAKER-OFF Required in Central London C.Q.S. office. Salary £1,100-£1,200. L.Vs.—Box 1797, "The Builder."

TAKER-OFF/MEASURING SURVEYOR Required by A. S. WILSON AND PARTNERS, Chartered Quantity Surveyors in their office at Cambridge.—Write to 8 Storey's Gate, Westminster, S.W.1, stating experience, age and salary.

JUNIOR TAKER-OFF Required by Chartered Quantity Surveyors in Gray's Inn. Excellent opportunity for man seeking post in varied practice.—Please reply stating age, experience and salary required, to Box 1800, "The Builder."

TAKER-OFF Required by London Quantity Surveyors.—Please write stating age, experience and salary required to Box 1801, "The Builder."

JUNIOR TAKER OFF
First class opening for junior in Estimating Department of Contractor's office. Age 24/27. Salary £850/-/-. Pension Bonus. This situation offers fine opportunity to young man seeking permanent employment.—Box 1813, The Builder.

SENIOR AND JUNIOR TAKERS-OFF for Chartered Surveyor's Office, near Victoria Station. Permanent position, excellent prospects, bonus scheme, five-day week.—State age, experience, salary required, Box 1650, "The Builder."

ASSISTANT TAKER-OFF (final standard), WORKER-UP with five years' professional experience for permanent positions Required by London professional firm. Five-day week. Luncheon vouchers. Superannuation. State position required, age, experience, qualifications and salary expected.—Box 1884, "The Builder."

EXPANDING PRACTICE, S.E. London. Requires TAKER-OFF with sound professional training. Team spirit essential.—Age, experience, and present salary to Box 1902, "The Builder."

TAKER-OFF, preferably qualified, SITE SURVEYOR and WORKER-UP, aged 25-35, Required for permanent position at Head office in London. Salary according to age and experience, plus considerable overtime and pension scheme after probationary period, holidays this year.—Apply to LANE & JEWELL, 15 Buckingham Palace-gardens, S.W.1. SLOane 9211/2.

JUNIOR TAKER-OFF Required by Chartered Quantity Surveyors.—Apply stating age, experience and salary required, to SARJEANT, STIMPSON & PARTNERS, 78 Park-lane, Croydon.

TAKER-OFF Required for office West End Flooring Contractor. Good prospects.—Write stating age, experience and salary required, Box 1913, "The Builder."

LONDON. Chartered Quantity Surveyors Require JUNIOR TAKER-OFF. Varied work in medium-sized office and good prospects.—Please write stating age, experience and salary required, to Box 1945, "The Builder."

TAKER-OFF Required by Chartered Quantity Surveyors in Holborn area. Permanent post in well varied practice.—Reply stating age, experience and salary required to Box 1946, "The Builder."

WORKERS UP

EXPERIENCED WORKER-UP Required by London Quantity Surveyors.—Write, stating age, details of experience and salary required, to Box 954, "The Builder."

SENIOR WORKER-UP for London Quantity Surveyors.—Write, stating age, details of experience and salary required, to Box 953, "The Builder."

WORKERS-UP Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 905, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors. High remuneration for good worker.—Please reply, in confidence, to Box 986, "The Builder."

WORKERS-UP and intelligent JUNIORS, wishing to train for and qualify as Chartered Quantity Surveyors, Required in Bloomsbury Chartered Quantity Surveyors' Office. First-class working conditions, including Luncheon Vouchers, and opportunities for progressive training offered to suitable applicants.—Apply, stating age, experience, if any, academic background and salary required, to Box 1560, "The Builder."

WORKER-UP Required by City Chartered Quantity Surveyors. Five-day week, Pension scheme.—State age, experience and salary required to Box 1578, "The Builder."

EXPERIENCED WORKER-UP Required by Quantity Surveyors near London Bridge. Pension scheme; overtime.—State age, experience and salary required to Box 1579, "The Builder."

EXPERIENCED WORKER-UP Required by firm of Chartered Quantity Surveyors in West End, London.—Reply stating experience, age, salary required to Box 931, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors.—Box 1620, "The Builder."

WORKER-UP with 18 months' experience, for small firm, and to assist in settlement of final accounts on varied work.—State age, experience and salary required to S. J. FLOOD, 2 Lowndes-street, S.W.1, or 'phone: Belgravia 3512.

WORKER-UP Required for Quantity Surveyor's office in Victoria area. Good prospects; Luncheon Vouchers. Write stating age, experience and salary required, Box 1654, "The Builder."

SENIOR WORKER-UP Required to take charge of Department in Westminster Quantity Surveyor's Office.—Please write stating age, experience and salary required to Box 945, "The Builder."

WORKER-UP
for long-term contract at NEWPORT, Mon., Required by firm of Chartered Quantity Surveyors. Rented accommodation available. Similar appointment exists in PORT TALBOT office.—Please write stating age, experience and salary required, to Box 1752, "The Builder."

WORKERS-UP Required by Chartered Quantity Surveyors for posts in Essex and Caithness, Scotland. A house to rent will be available in Essex, and a suitable site living allowance in Scotland. Candidates must have experience in a professional office. Interviews arranged in London or Caithness.—Apply Box 1722, "The Builder."

SENIOR WORKER-UP Required by Midlands Chartered Quantity Surveyors. Applicants must be keen and conscientious and have had a wide experience.—Apply, giving particulars of age and salary required, to Box 1920, "The Builder."

JUNIOR WORKER-UP Required by London Quantity Surveyors (West End). 5-day week. Good prospects in busy office.—Reply in own handwriting, giving age and details of experience, Box 1909, "The Builder."

WORKER-UP
for permanent position in London office of Chartered Quantity Surveyors. Pension scheme and L.Vs.—Please write stating age, experience and salary required, to Box 1751, "The Builder."

SENIOR WORKER-UP Required to take charge of department in Chartered Quantity Surveyors' Office. London, W.1. Five-day week. Luncheon Vouchers. Salary £1,000 p.a.—State age, experience, Box 1760, "The Builder."

SYDNEY, Australia. Experienced WORKER-UP Required, 3-year contract, £A1,450, £A1,500, £A1,550 plus considerable overtime. Fares to Australia paid. Continuation contract probable if required.—Box 1905, "The Builder."

SENIOR WORKER-UP Required by Chartered Surveyors, Westminster. State experience, age and salary required.—Box 1948, "The Builder."

JUNIOR WORKER-UP with some previous experience Required in Gray's Inn Quantity Surveyor's Office. Permanent position with opportunities for rapid advancement.—Box 1951, "The Builder."

EXPERIENCED WORKER-UP
Required by Chartered Quantity Surveyors for site office at SCUNTHORPE.—Apply stating age, experience and salary required, to Box 1753, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors. 5-day week. Opportunities to progress.—Write stating age, experience and salary required to Box 1802, "The Builder."

EXPERIENCED WORKER-UP Required by Holborn Quantity Surveyors. Good prospects for experienced applicant. Salary approximately £1,000 per annum.—Please write, stating age, experience, etc., to Box 1810, "The Builder."

EXPERIENCED WORKER-UP Required by London Chartered Quantity Surveyors. Good salary for suitable applicant.—Write Box 1811, "The Builder."

WORKER-UP Required for duties in Head office. Must be experienced in abstracting and billing for final account purposes. Salary according to age and experience.—Apply in writing to LAVENDER McMILLAN (CONTRACTORS), Ltd., 54 Cheam Common-road, Worcester Park, Surrey.

ENGINEERS

SITE ENGINEERS Required for building contracts, London area; must have considerable experience in multi-storey concrete framed buildings. Good salary for men with initiative.—Apply in writing, stating age and experience, M. J. GLEESON (CONTRACTORS) Ltd., Haredon House, London-road, North Cheam, Surrey.

SENIOR and JUNIOR ENGINEERS and MEASURING SURVEYORS are Required for Building Contracts in England. These are permanent appointments with good prospects. Bonus and Superannuation Schemes in operation.—Applications, which will be dealt with in strict confidence, must give details of age, experience, qualifications and salary required and should be addressed to Personnel Officer, TARMAC CIVIL ENGINERING Ltd., Ettingshall, Wolverhampton.

PLANNING ENGINEER Required by reputable and progressive Cambridge firm of Building Contractors. This is a senior head office post which is responsible for the planning, progressing and bonusing of large building contracts. Work includes executive co-ordination of programmes with other departments. Knowledge of site organisation is essential. Experience of contract or production planning is an advantage and will be followed by training for the suitable man. This is an important post with increasing responsibility.—Applications for interview, which will be treated in confidence, should give age and precise details of qualifications and relevant experience and be sent to Mr. B. H. Johnson, Messrs. JOHNSON & BAILEY, Ltd., Norfolk-street, Cambridge.

Medium Sized Company in the building and Civil Engineering Industry require the following :—

PLANNING ENGINEER

to plan housing, flats, shops and some engineering works. Candidates should have a technical qualification of some standing in building or civil engineering and have some experience of the applications of modern management techniques in the industry. This is a new appointment and offers considerable scope for a suitable candidate.

FIRST CLASS ESTIMATOR

for building contracts. Applicants must have had first class experience and be capable of estimating for contracts of every size and description. This vacancy is being created by the expansion of the Company and the estimator will play his part in the fucure planned expansion.

PLANT MANAGER

to take charge of all its plant. The Plant Manager will be required to maintain the plant in first class condition and will be responsible for both "hiring out" which is excess to the Company and to "hire in" plant as requested. The right man will be given considerable freedom to develop all aspects of the job and should have a minimum qualification of H/N/C in Mechanical Engineering and supervision in the hire and maintenance of contractors plant.

Sites are in the Home Counties and the Company's Head Office is in the West End. Four figure salaries are envisaged for the above appointments from applicants not over 40 years. Appointments will be permanent after a probationary period of six months when applicants will be eligible for the Company's Sickness Insurance Scheme and an excellent pension scheme is in operation.

Young Experienced Assistant Civil Engineer required urgently for setting out and site supervision duties on estate development schemes and civil engineering contracts. Age about 25 and a starting salary of not less than £750 per annum is envisaged.

Reply in confidence to Box 1836 "The Builder"

SITE ENGINEERS

required for Contracts in the Midlands between 23 and 30 years of age and have had a minimum of three years site experience.

Apply in writing to:

Sir Alfred McAlpine & Son Ltd., 49, Waterloo Road, Wolverhampton.

RESIDENT ENGINEER (A.M.I.Struct.E.) Required for block of multi-storey flats for Portsmouth Corporation. To supervise foundations (piling) and erection of precast and prestressed concrete frame and cladding. Start April. Approximately 10 months but possibility of extension for further block. Salary £1,000 p.a.—Apply in writing stating age, qualifications and experience to FELIX J. SAMUELY AND PARTNERS, 231, Gower-street, N.W.1.

WORKS STUDY ENGINEER Required, preferably with experience in the building industry.—Reply in writing stating age, qualifications and details of experience, etc., to M. J. GLEESON (CONTRACTORS) Ltd., Haredon House, London-road, North Cheam, Surrey.

FORTHCOMING retirement presents outstanding opportunity for enterprising HEATING ENGINEER to take over management of Heating Department of small Company of Public Works Contractors in rapidly expanding town set in delightful countryside. Applicant must have good practical experience and be capable of preparing schemes, estimating for and supervising installations. Also knowledge of oil fired boilers. Outstanding prospects for man capable of managing and expanding this department.—Write: NORTH WILTS SANITARY & HEATING CO., Ltd., Newport-street, Swindon.

TRAVELLING SITE INSPECTOR (A.M.I.Struct.E.) based London. Required by Consulting Engineers. Design and practical experience of all types of reinforced concrete framed buildings—precast and prestressed, foundations and steelwork. Sites in all parts of U.K.—Apply in writing, giving age, experience, qualifications and salary required to FELIX J. SAMUELY AND PARTNERS, 231 Gower-street, N.W.1.

ESTIMATOR

Required for National Building & Civil Engineering Contractor for Head Office in Midlands. Fully experienced in estimating for all types of Civil Engineering Works. A good salary will be offered with Pension Scheme and other conditions to the selected applicant.

Send full details of training and experience in confidence to

Box No. 1725, "The Builder"

ESTIMATOR

Required by
Ford & Walton Ltd.,

who will in approximately 1 year be moving office to Wembley Park—Applicants must be fully experienced and have a sound knowledge of modern building methods. Applications to Chief Estimator, stating age, experience and salary required.

FORD & WALTON LTD., Walton House, Warton Road, E.15.

PAINTING CONTRACTORS
require

ESTIMATOR

Large painting Contractors in West London Area, require experienced and energetic Estimator. Good salary plus annual bonus on results. Car supplied. Opportunity for advancement for the right man. Applications will be treated in strict confidence and should give full details of previous experience, together with age, and salary expected, to

Box. No. 1912 'The Builder'

ESTIMATORS

ESTIMATOR Required by medium sized Contractor in Westminster area. Must be experienced in all aspects of estimating for varied contracts up to £100,000. Five-day week, superannuation after 12 months' service.—Apply, stating age, experience and salary required, to Box 1815, "The Builder."

ESTIMATOR Required for large and expanding company of Estate Developers, operating mainly in the Home Counties. Excellent prospects and salary for keen young man capable of taking control of department.—Write, stating age and experience, to Chief Surveyor, McMANUS & CO. Ltd., Mimms Hall-road, Potters Bar, Middlesex.

CIVIL Engineering Contractors Require live young ASSISTANT in Estimating Department to handle enquiries for materials, sub-contracts, etc., on a wide range of tenders. Some experience of simple Taking-off and billing for small contracts would be an advantage.—Apply, with full details, to Personnel Manager, MEARS BROS. (CONTRACTORS) Ltd., 154 Sydenham-road, S.E.26.

ESTIMATOR (ASSISTANT). SCOTTISH SPECIAL HOUSING ASSOCIATION, Ltd., invite applications for this superannuable appointment in the Direct Labour Organisation. Applicants should possess a wide experience of competitive estimating for housing schemes, including multi-storey flats, and for roads and sewer construction. Salary scale £780-£1,135 per annum with placing for age on entry up to £990 at age 31. A house may be available, if required. —Forms of application with full particulars of the post are obtainable from the Secretary, 15-21 Palmerston-place, Edinburgh 12.

SCAFFOLDING ESTIMATOR Required. Must be fully experienced in all types of scaffolding and cradles. Contributory pension scheme and car provided.—Write, stating age, experience and salary required, Box 1664, "The Builder."

PAINTING Contractors Require ESTIMATOR experienced in pricing Bills of Quantities, site measuring and preparing estimates for commercial and industrial work.—Write fully stating age, experience, salary required, PERROTT GRENVILLE, Ltd., 58 Kensal-road, W.10.

ESTIMATOR Required by Builder, Beckenham. Must be capable man used to tendering for general building works. Sound position for sound man.—Box 925, "The Builder."

ESTIMATOR Required in small works department of Harrow Builders.—Box 1703, "The Builder."

JUNIOR Required to assist in Estimating Department of National Contractor's office. Age 15-18. Technically trained preferred. Opportunity to become Indentured Student after probationary period. Necessary keen, intelligent and willing.—Write Box 1704, "The Builder.

ESTIMATOR/SUPERVISOR, able to deal with small jobbing and maintenance work in the London area from inquiry to final account. Required by leading firm of Building Contractors.—Applications should state age, experience, and salary required, to Box 1699, "The Builder."

ESTIMATING ASSISTANT Required by leading London firm of Building and Civil Engineering Contractors, to help with the preparation of abstracts from Bills of Quantities and with the issue of tender enquiries. The position is permanent and pensionable, and offers interesting experience.—Applications should give full details of age, past experience, and salary required, to Box 1708, "The Builder."

ESTIMATING CLERK, age around 30 years, for Wood Flooring Contractors, East London Area. Some experience in the Building Trade an advantage, able to take off quantities, etc.—Write fully, in confidence, details of career, salary and experience to Box 1798, "The Builder."

SENIOR ESTIMATOR/SURVEYOR Required, capable of dealing with Contracts, all sizes, from enquiry to account. Superannuation scheme. Old established firm, Central London.—Applications, stating age, experience and salary required, to Box 1762, "The Builder."

JUNIOR ESTIMATOR/SURVEYOR Required by old established firm Central London. Opportunities for advancement, superannuation scheme.—Applications, stating age, experience and salary required, to Box 1763, "The Builder."

ESTIMATOR Required to deal with Contracts from Enquiry to Final Account.—Reply, stating age, experience and salary required, to Managing Director, W. SILK & SON Ltd., 13 Homerton High-street, London, E.9.

ESTIMATOR/SURVEYOR Required by old-established Building Contractor, East London. Capable of dealing with Contracts from enquiry to final account. Taking-off own quantities from drawings if necessary or pricing Bills up to £50,000.—Write, stating age, experience and salary required, to Box 1764, "The Builder."

ESTIMATOR/SURVEYOR Required for S.E. London Building Contractors, experienced in small works and medium sized contracts from Enquiry to Final Account.—Apply, with full particulars, to Box 1773, "The Builder."

ESTIMATOR'S ASSISTANT Required to help with estimating work. First-class opportunity to learn general estimating, joinery costing and variations on Bill of Quantities, day work, etc. London, S.W.—State age, experience and salary, Box 1771, "The Builder."

ROOFING ESTIMATOR/SUPERVISOR, some knowledge slating, tiling, asbestos sheeting and lining. London firm.—State age, experience and salary required, Box 1827, "The Builder."

ESTIMATOR Required for Head Office of large firm of Building and Civil Engineering Contractors in Edinburgh. Previous experience in estimating essential. Good prospects, bonus and superannuation scheme.—Apply stating age, experience and salary to Box 1679, WOOLWARD ADVERTISING Ltd., 86a George-street, Edinburgh.

BUILDER'S SENIOR ESTIMATOR-SURVEYOR, age 40-55; permanent progressive position with pension. Sound organiser and planner essential for works from inquiry to final account.—Write full particulars and salary required. Chairman, Wm. HARBROW Ltd., 214 Rotherhithe New-road, S.E.16.

ASSISTANT ESTIMATOR/SURVEYOR Required for medium-size Builders in East London area, competent to deal with all types of work up to £20,000. Good opportunity for advancement. Bonus and Pension scheme in operation.—Write stating age, experience and salary required to Box 1885, "The Builder."

ROOFING CONTRACTOR'S ESTIMATOR Required. Must be experienced in Asbestos Cement Sheeting. Knowledge of slating and tiling desirable. London area.—Reply Box 1877, "The Builder."

SENIOR ESTIMATOR

(Age about 30)

Responsible to Head of Department for building works up to £100,000 in value. Central London Firm.

Contract Surveyor

(Age about 30)

To take charge of progress valuations, bonusing and final account work. Assistance given.

The above appointments are part of a policy of expansion of a successful firm and offer excellent prospects for advancement in a thriving and expanding business.

The successful applicants will be able to share in the prosperity they create—annual bonus on results.

Box No. 1632, "The Builder."

ESTIMATOR/SURVEYOR

required by progressive firm N.E. London

L.I.O.B. an advantage. Pension scheme. Apply in writing giving details to

Box No. 919, "The Builder"

SENIOR ESTIMATORS

required by

National and International Contracting Company

Knowledge and experience necessary of detailed price build-up for all trades for contracts up to and exceeding one million pounds. Particularly required is experience of usage of modern plant and equipment and modern constructional methods, home and overseas. Salary according to qualifications but in the range of £1,300 to £1,500 per annum. Pension Scheme. Apply

Box No. 1521 'The Builder'

JUNIOR ESTIMATOR

A vacancy exists with old established Building Contractor for junior estimator. All classes of work. Salary £850 p.a. plus bonus and pension scheme. Permanent situation with wide scope for advancement for right man. Current driving licence an advantage.

Box No. 1812, "The Builder"

ESTIMATOR/SURVEYOR Required. Applicants must be capable of dealing with contracts up to £40,000 from enquiry to final account.—Apply in writing, stating age, salary required, and giving full details of experience, to WILLIAM WILLETT (BUILDERS & DECORATORS) Ltd., Sloane-square, S.W.1.

ASSISTANT ESTIMATOR

required by medium sized Civil Engineering and Building Contractors operating in Sevenoaks/Reigate area for estimating small road contracts and drainage works, and general building works up to £10,000. Able to prepare quantities and detailed build-up of prices. Pension scheme in operation. Write in strict confidence giving full particulars of experience age and indication of salary required.

Box 1876 'The Builder'

KEBBELL DEVELOPMENT & Management Co., Ltd.

Due to expansion of our estate development we require an

ESTIMATOR/SURVEYOR

experienced in ordering materials, progressing, estimating and administering a production bonus scheme. If you would like to join the team of our Company, we offer you a pensionable position and will assist you to purchase a new house. Apply in writing to the

Managing Director,
4 The Mead, Carpenders Park, Watford, Herts,

giving brief personal history, age, educational background, experience and present salary.

INDUSTRIAL PAINTING

TOP WEIGHT MAN
FOR
SUBSTANTIAL LONDON COMPANY

Keen Estimator and Supervisor with the necessary contacts to enlarge an already thriving business.

Candidate should be about 35 yrs. A good disciplinarian and with the experience to permit him to make a highly remunerative career for himself. The position is pensionable (non-contributory) and carries with it an annual bonus on results.

Box No. 1631.

WM. AIREY & SON (LEEDS) LTD

invite applications for the undermentioned vacancies. Apply in writing, giving brief details and salary required to **Commercial Manager, Eldon House, Leeds, 2.**

SENIOR ESTIMATOR

The successful applicant will be responsible to the Commercial Manager for the preparation of estimates for industrial building and contracts for the Educational Authorities. Assistance will be given in preparing all estimates by Constructional and Planning Departments. Applicants should have 5 years' previous experience of estimating for projects up to £500,000, and be within the age group 30/45.

SENIOR SURVEYOR

The successful applicant will be responsible to the Chief Surveyor for the preparation of all interim and final accounts.

Preference given to applicants holding the I.O.B. or I.Q.S. qualifications. A background with Contractors is essential.

SITE AGENTS

The successful applicants will be responsible to a Contracts Manager. They must be capable of controlling major building projects and have an appreciation of cost control and weekly planning.

ESTIMATOR/SURVEYOR Required by old established Building Contractors. East Grinstead. Capable of dealing with Contracts from enquiry to final account; sound all round experience.—Write, stating age and salary required, to Box 1928, "The Builder."

ESTIMATOR/SURVEYOR Required by London Contractors. Must be capable of dealing with small contracts from enquiry to final account. This appointment particularly suitable to young man with drive and initiative.—Reply, stating age, experience and salary required, HENRY SMITH & SON (PADDINGTON) Ltd., 26 Sussex-place, Hyde Park, W.2. PADdington 3675/8.

ESTIMATOR, Flooring, Tiling trade (London). Excellent prospects for first-class applicant.—Write full particulars, Box 1916, "The Builder."

CITY Contractor Requires ESTIMATOR-SURVEYOR for work up to £60,000. Permanent staff and pension scheme if required.—Box 1956, "The Builder."

ALDGATE Contractor Requires experienced ESTIMATOR on permanent staff. Pension scheme if required.—Telephone Bishopsgate 9778.

ESTIMATORS

Estimators required by old established company manufacturing products used in the Building Industry. Applicants should preferably have a knowledge of elementary building construction and be used to handling correspondence.

A contributory Pension Scheme is available. Apply by letter, stating age, experience, educational background and salary required.

E. Hill Aldam & Co. Ltd.
Britannic Works,
Red Lion Road,
Tolworth, Surbiton, Surrey.
Elmbridge 0090.

MANAGERS

BUILDERS' MANAGER/ESTIMATOR to take charge of Jobbing and Small Works department. Must have initiative and drive. Share of profits.—WHUR Ltd., 2 Princes-street, Southend-on-Sea, Essex.

DIRECTOR level appointment, precast concrete industry. Only an ambitious commercially minded and experienced man should apply. Business in London area. Ability to take complete control is essential. Position could lead to Managing Directorship.—Please write in first instance, in strictest confidence, to Box 1816, "The Builder."

APPLICATIONS are invited for the position of CONTRACTS MANAGER. Applicants must have had previous experience in a similar capacity, and should be capable of organising and controlling a number of contracts concurrently. Salary will be commensurate with experience. The position is permanent and pensionable and a car will be provided. —Reply in confidence giving details of age, experience and salary required to R. J. BARTON & SONS, Ltd., Altcar-road, Formby, Lancs.

CONTRACTS MANAGER. South London. Varied to £50,000. Able also to control production of small Joiner's Shop an advantage. — Full details, experience, age and salary. GREENAWAY & SON, Ltd., 265 Lordship-lane, S.E.22.

BUILDING MANAGER

to take charge of Building Department of National Contractors operating mainly in the London area. Thorough knowledge of modern building is essential, together with administrative ability in the control of a large Department. Applicants must have considerable energy and the capacity for hard work together with the ability to instil enthusiasm and team spirit in others. Commencing salary will be in the range of £2,000/£3,000 depending on experience, together with the usual bonus and Pension arrangements. Applications to be addressed to the Managing Director, which will be treated in the strictest confidence. Own Staff informed.

Box No. 1728, "The Builder"

PLASTERING MANAGER

Genuine business opportunity for top grade man to develop a plastering company associated with allied building trades in the North of England.

Applicants must be about 40, able to control labour and have a thorough knowledge of the trade including estimating. Applications in strict confidence must state age, experience and present employer.

Box 1727, "The Builder"

BUILDING MANAGER

Required for Senior position directly responsible to Directors.

Essential qualifications:

Age—Maximum 45 years.

Able to control several contracts at one time up to a total value of £500,000.

Experience in modern management, planning, work study, cost control and bonus.

Knowledge of estimating and surveying.

Sound Technical education and background.

Proven experience.

Good Salary and prospect of promotion to successful applicant.

Written applications in confidence giving full details of experience and present Employer to:—

G. E. GATES, F.I.O.B.,
E. S. GATES LTD.,
Chalfont Station Road,
Amersham, Bucks.

AREA GENERAL MANAGER
BUILDING AND CIVIL ENGINEERING

RICHARD COSTAIN (Construction) Limited wish to appoint an area General Manager to take over control of their building and civil engineering business in the South East, which is now being operated from an established office in Canterbury. Within the broad policy of the company the Area Manager will be expected to maintain and develop the business which has been built up by many years trading within the area.

Candidates should be preferably 35-45 years of age, technical qualifications would be an advantage but are less important than practical and varied experience of contract management plus proof of ability to manage successfully all aspects of a contracting business.

For further detailed information relating to this appointment please apply in writing to :—

PERSONNEL MANAGER,
RICHARD COSTAIN LIMITED,
111, WESTMINSTER BRIDGE ROAD,
LONDON S.E.1.

W. & M. LTD

CONTRACTS MANAGERS

We require two men to fill these positions of importance, preferably in age group 35 to 45, with experience of running several contracts operating concurrently; minimum of six sites, running into six figures in total.

A successful production record with special regard to quality of finish on a wide range of buildings must be coupled with a genuine interest in modern management techniques and ability to use them.

The Company is well established and progressive, with a reputation for high-class work and strict adherence to contract completion dates, with a large private housing programme laid down for the next 2/3 years.

The positions offered are based on our Head Office at Evesham, with a permanency for the right men. Substantial salary and contributory pension scheme in operation.

Written applications, which will be dealt with in strictest confidence, should state age, outline of experience, approximate salary required, and should be addressed to:

ASSISTANT MANAGING DIRECTOR,
WHEELER & MANSELL, LTD.,
BUILDING CONTRACTORS,
P.O. BOX NO. 8, LIME STREET, EVESHAM, WORCS.

MANAGER
REQUIRED FOR
SHOPFITTING Co.

in Bristol who have modern Premises and Machinery and employ 15 persons. Applicants must have had a thorough training and experience in all branches of the trade. The duties of the selected person will be to obtain enquiries, prepare sketches and estimates, plan production of the work, buy materials, etc.
The situation calls for a man with drive and initiative, able to expand the business and engage additional staff as required, and would lead to a Directorship in the Company after proved results. Details of education, career, age and present salary in confidence to

Box No. 1888

AUSTINS OF EAST HAM LIMITED
JOINERY MANUFACTURERS
Executive Assistant

The Assistant Director responsible for administration of Joinery Sales, costings and estimating, requires an assistant with a good knowledge and experience of this work, and capable of assisting with Managerial problems. Age group 25–35. Excellent prospects for a person with initiative. Commencing salary around £900. Staff pension scheme. Apply in own handwriting, giving details of career, to the Sales Director, 2, Abbots Road, East Ham, London, E.6.

TROLLOPE & COLLS LIMITED
Require an
ASSISTANT CONTRACTS MANAGER
to assist in the organisation and supervision of high-class contracts in the London area. This post will carry excellent opportunities, with membership, in due course, of the Company's Superannuation Scheme.—Reply with fullest particulars to the
Assistant Secretary,
TROLLOPE & COLLS LIMITED
One Noble-street, Gresham-street, London, E.C.2.

A DEPOT MANAGER and ESTATE FOREMAN is Required in mid-Essex. Applicants should have a good knowledge of building construction and housing maintenance, be able to drive, and be competent to supervise men. Transport provided. Wages 6s. per hour flat rate, subject to increase by wage award. Applications, giving details of age, experience, etc., to be received by 19th March, 1960.—Write Box 1830, "The Builder."

CONTRACTS MANAGER Required for medium-sized building contracts in the Manchester area. Applicants must have drive and ability. Write in confidence giving age, details of previous experience and salary required. Car provided. Pension and sickness scheme in operation.—Apply Box 1837, "The Builder."

MANAGER Required for Small Works Department of medium-sized Building Contractors, North Herts. Ability to estimate, supervise and carry through jobs to final account essential. Permanent pensionable position with car for successful applicant. —Apply with full particulars to Box 1687, "The Builder."

CONTRACTS MANAGER, Houses and Flats, North West London area.—Full details past experience and salary required to Box 944, "The Builder."

ASSISTANT to Building Manager Required by small expanding contractors Romford area, carrying out alterations, conversions, shopfitting and new works to £30,000. All duties.—Write fully stating salary required to Box 922, "The Builder."

MANAGER

required for medium size contracts in the London area, centred on the E.C.2 district. Please send full details of past experience (preference will be given to a man capable of estimating) and salary required to:

Box No. 1917, "The Builder"

CONTRACTS MANAGER Required by small progressive firm of Building Contractors to manage contracts in the London area. Good salary and half-yearly bonus on results to suitable applicant.—Box 1765, "The Builder."

WEST MIDDLESEX. An excellent and immediate opportunity occurs in the Marine Division of an expanding firm for a MANAGER to control primarily the manufacture of timber boats. Ability to handle men and experience in actual ratefixing in this field is essential. Similar knowledge in prefabricated joinery would be an advantage. Salary will be commensurate and applicants should submit fullest particulars including present remuneration.—Box 1854, "The Builder."

CONTRACTS MANAGER Required to take charge of department responsible for administration of Contracts (Office and Site) of the Farm Building Section of Concrete Utilities. Some experience in sales an advantage. Salary commencing at £900 per annum. House available.—Apply in writing to the Assistant Managing Director, CONCRETE UTILITIES Ltd., Great Amwell, Ware, Herts.

ASSISTANT TO DIRECTOR OF BUILDING CONTRACTORS Required. Duties would include ordering and buying materials, checking Sub-Contractors' accounts, bonusing, measuring, preparing final accounts, and supervision of General Foremen and all trades.—Please write personally to Managing Director, LEE BROS. (ALDERSHOT), Ltd., High-street, Aldershot, stating age, experience and salary required.

H. FAIRWEATHER & CO., LTD
have vacancies for
CONTRACTS MANAGERS

Applicants should have a thorough knowledge of modern building techniques, planning and cost control.

Contributory pension and continuous disability schemes exist for accepted candidates. Write stating experience, age, qualifications, etc., to the

Personnel Manager,
Hyde Works, St. James's Lane, Muswell Hill, London. N.10.

CLERKS OF WORKS

CLERK OF WORKS Required mid-April for the building at Bishop Otter College, Chichester, of new hostels, chapel, dining hall, assembly hall, gymnasium, laboratories, etc., costing approximately £250,000.—Please send application giving details of age, experience, salary required, etc., with copies of two recent references, to BRIDGWATER & SHEPHEARD, B.Arch., F.F./A.R.I.B.A., 42 Bruton-place, Berkeley-square, London, W.1.

CLERK OF WORKS for an immediate large Civil Engineering and Building project near Leicester; state when available and Salary required.—Applications giving age and experience to Personnel Manager, T.I. (GROUP SERVICES) LIMITED, Rocky-lane, Aston, Birmingham 6.

EXPERIENCED CLERK OF WORKS Required for large building project in Romford, Essex.—Write stating age, experience and salary required to ROFF MARSH, F.R.I.B.A., M.T.P.I., 125 London-road, Chelmsford, Essex.

CLERK OF WORKS Required to superintend the erection of new buildings for St. Hild's and Bede Colleges, Durham, work on which is expected to begin in May, 1960, and be completed about July, 1962. Candidates must be experienced Clerks of Works with a good knowledge of all building trades including reinforced concrete work. A good salary will be offered to a man with the right qualities and good experience.—Applications giving full details of past experience, age and salary should be sent to the Architects appointed by the Colleges, CORDINGLEY & McINTYRE, F./F.R.I.B.A., Chartered Architects, Owengate, Durham City, not later than 25th MARCH, 1960.

CLERK OF WORKS immediately Required on Contract at Romford for large warehouse block, ancillary buildings and service roads. Experience in supervision of large day-work contracts essential. Probable duration, nine months.—Reply, stating salary required, to Personnel Manager, IND COOPE Ltd., Station-street, Burton-on-Trent.

CLERK OF WORKS Required for two-year project at Norwich starting in May, 1960. This post calls for a first-class man of proved ability and a generous salary will be paid.—Apply with brief particulars to SEELY AND PAGET, 41 Cloth Fair, London, E.C.1, or telephone MET 8511.

CLERK OF WORKS urgently Required for multi-storey office block in Manchester. Thorough knowledge of reinforced concrete and competence to supervise works. Salary not less than £900 per annum. Interview London or Manchester.—Apply by letter to E. NORMAN-BAILEY & PARTNERS, 25-27 Catherine-place, London, S.W.1.

CLERK OF WORKS Required to supervise the erection of two Schools in the Macclesfield and Glossop areas.—Reply, stating age, experience, and salary required to Messrs. REYNOLDS & SCOTT, F/A.R.I.B.A., 9 Albert-square, Manchester, 2.

CLERK OF WORKS. An experienced man is Required by a well-known engineering organisation for inspection and control of Civil Engineering and Building operations on a site near Manchester. Commencing salary in the region of £900 p.a. plus subsistence allowance if away from home.—Please write, giving full details, in confidence, to Box 1878, "The Builder."

ASSISTANT CLERK OF WORKS Required for new American Embassy. Temporary appointment available now 3-4 months' duration. Salary up to £1,300 p.a.—Please ring MAY 1225 or AMB 4521.

CLERK OF WORKS Required to superintend the erection of a new building, costing approximately £200,000, for Gonville & Caius College, Cambridge. Work will commence in April, 1960, and be completed in August, 1961. Salary at the rate of £900 per year plus board and lodging.—Applications, and the names of three referees, should be sent to the Architect, PROF. SIR J. L. MARTIN, F.R.I.B.A., The Kings Mill, Great Shelford, Cambridge, not later than the 25th March.

CLERK OF WORKS Required immediately to supervise a number of contracts in and around the London area. Must be experienced in all branches of the building industry.—Box 1908, "The Builder."

REPRESENTATIVES

IF YOU are interested in earning £1,500 or more per annum, and are willing to work on a commission basis only, other non-competitive lines not objected to, particularly if you have connections with the building trade, shopfitters and large stores, you are of interest to us.—Should we be of interest to you, please send brief details of experience and existing lines, in confidence, to Box 1706, "The Builder."

SALES REPRESENTATIVE, aged 25-45, Required by Ferro-Concrete Reinforcement Specialists in London. Preference will be given to applicants with previous experience and connections with Consulting Engineers, Local Authorities, Contractors, etc. Contributory Pension Scheme, salary and expenses according to experience.—Please reply stating details and salary required to Box No. DA 4009, c/o WHITES, 72 Fleet-street, London, E.C.4.

A CAPABLE SALES REPRESENTATIVE is Required to fill a vacancy on our south Yorkshire territory extending from Halifax-Chesterfield to east coast. To sell proprietary manufactures for preserving iron and steel work. Also for roofs, building maintenance, construction and distribution. Applicants must reside on the territory. Established connection exists. Salary, commission, expenses, superannuation. State if car owner.—Write Sales Manager, Andrew Maxwell Division (THE LIVERPOOL BORAX CO., Ltd.), Maxwell House, St. Paul's-square, Liverpool, 3.

REPRESENTATIVES (two) Required on good commission basis for Pointing Contractor. Will quote for pointing contracts in any part of the country. —For further information write MR. VINCENT, 94 Digby-drive, Marston Green, Nr. Birmingham.

TECHNICAL REPRESENTATIVE, aged 25 to 35, with experience of shopfitting and building trade, Required by old-established Company. Capable of taking site details and estimating for Butchers and Slaughterhouse railwork. Salary, car and all expenses. North or East London resident preferred.—Write Secretary, HERBERT & SONS Ltd., Angel-road Works, Edmonton, London, N.18.

REPRESENTATIVE

for the South London and Southern Counties areas. Must be of good appearance and have previous experience of calling on Builders' offices and sites. A good basic salary will be paid with commission. Applications with full details of experience are invited and these will be treated in complete confidence and should be addressed to:

CONallCRETE Ltd.
Littleton Road, Ashford Common, Middlesex.

EXPERIENCED REPRESENTATIVES,

Already calling on woodworking trades and large timber users, required in various areas to sell established line, with large and rapidly expanding potential, of heavy duty fastening equipment, including consumable fasteners. Exclusive territory and generous commission terms offered. State age, experience, territory covered to

Box 947, "The Builder".

REPRESENTATIVE Required for old-established West End Flooring Contractor. Excellent prospects, remuneration and car for right man.—Write full particulars, Box 1914, "The Builder."

BUYERS

BUYING AND COSTING CLERK, S.E. London. Able to prepare materials schedules from Bills of Quantities and Drawings.—Age, experience and salary required to Box 1820, "The Builder."

BUYER.—Building Contractors Require further senior ASSISTANT, aged 28-40, with initiative and good experience trade and markets. Pension Scheme, progressive salary and other attractive conditions.—BERNARD SUNLEY & SONS, Ltd., 25 Berkeley-square, W.1. (Ref. PD.)

EXPERIENCED BUYER Required, fully competent in all trades and able to order from drawings.—Write stating age, experience and salary required to SPICERS (BUILDERS) Ltd., Ombersley-road, Worcester.

JOHN LAING AND SON LIMITED

require

ASSISTANT BUYERS

at their Head Office.

Applicants should have had some experience of Buying or as Builders Assistants and must be able to take off quantities.

Applications welcome from men studying for H.N.C., L.I.O.B. or A.I.Q.S., or those who have already qualified.

Permanent pensioned employment for those seeking a progressive career. Canteen and Sports Club facilities available. Five day week.

Those interested should write for application form to **Personnel Manager (A.B.6), John Laing and Son Limited, London, N.W.7.**

BUILDERS ASSISTANTS

BUILDERS' ASSISTANT Required for Hertfordshire builders. Some designated office duties combined with estimating and surveying and as Assistant to Director. Salary commensurate with experience.—Full particulars to Box 1672, "The Builder."

BUILDER'S ASSISTANT Required for fluctuations claims and to assist in Surveyor's Office.—Apply stating age, experience and salary required to MESSRS. A. T. ROWLEY (LONDON) Ltd., Cambridge Works, Lordship-lane, Tottenham, N.17. TOTtenham 3611.

FORD & WALTON LTD., WALTON HOUSE, WARTON ROAD, E.15.

whose offices will be moving to Wembley Park within 12 months require a young man to be trained as an

ASSISTANT

in their Shuttering Department. Ultimate duties will be measuring for and computing weekly bonus, preparing final accounts and the keeping of costs and other records. Preference will be given to a young man who has had some surveying experience but all applications will be considered. This is an interesting position in a specialised branch of the industry that is becoming increasingly more important. Applications in own handwriting giving age, salary required, details of education and previous employments, etc. should be addressed to **The Personnel Manager** at the above address.

JUNIOR BUILDER'S ASSISTANT Required by well known City Contractors. Previous experience and draughtsmanship desirable.—Write giving full particulars of experience with age and salary required, Box 1767, "The Builder."

BUILDER and Decorator, Notting Hill, Requires an ASSISTANT to prepare Estimates up to £1,200, to supervise work and prepare final account.—Apply, stating age, experience, salary required, and when available, to Box 1879, "The Builder."

JUNIOR BUILDER'S ASSISTANT Required for Watford Contractor.—Write stating experience and salary required to Box 1918, "The Builder."

BUILDER'S ASSISTANT Required, general duties, Bristol area.—Box 1944, "The Builder."

GEORGE WIMPEY & CO., LIMITED

have a vacancy for an

ASSISTANT BUYER

Applicants must have previous experience with building firms engaged in contract and/or speculative building.
Good prospects. Salary by arrangement, according to experience.
Five-day week, 8.45 a.m. to 5.15 p.m., staff restaurant, pension scheme after probationary period.
Written applications to:

Establishment Officer,
27, Hammersmith Grove, London, W.6.
Ref. 910A

Multiple Shop Company with Head Office in the West End requires an

ASSISTANT

to be responsible for shop maintenance and repairs, stores, purchasing, etc. Some experience of plans, specifications and accounting would be helpful. Salary £900/1,000. Write giving experience, age, etc., to:

Box No. 1838, "The Builder"

AGENTS

AGENT-GENERAL FOREMAN Required in first instance for large school contract. Assistance with accommodation if required.—Apply NICHOLSON HARLOW, Lawefield-lane, Wakefield.

AGENTS AND GENERAL FOREMEN.

WATES LTD.

In view of continued expansion we are interested in interviewing high grade AGENTS and GENERAL FOREMEN, with a view to employment on interesting City and West-End work. Must have proven record of managing large contracts, comprising multi-storey, reinforced concrete construction both *in situ* and pre-cast.

Pre-planning, Work Study and Cost Control experience essential.

Write fully, stating age, description and value of previous contracts, positions held and salary required to:

Personnel Manager,
1260 London-road, Norbury, S.W.16.

BUILDING AGENT Required Southern England.—Applications stating age, experience and salary to Box 979, c/o GEO. MURRAY (ADVERTISING), Ltd., Columbia House, Aldwych, W.C.2.

LAING

AGENTS

are required for senior appointments on large construction contracts in various parts of the country.

Applicants will be required to have a sound experience on a wide variety of contract work. L.I.O.B. or A.M.I.C.E. qualifications preferred. Age 30-40.

These appointments offer progressive and permanent employment with Superannuation scheme.

Salary will be commensurate with experience and qualifications.

Apply in writing to
Personnel Manager (A.4.)
JOHN LAING AND SON LIMITED,
London, N.W.7.

SENIOR SITE AGENTS

Sir Lindsay Parkinson & Co. Ltd., invite applications for the above positions. Applicants who must be fully experienced in carrying out major building contracts of all types should forward all details to:—

Building Director,
Sir Lindsay Parkinson & Co. Ltd.,
6, Lambeth Road,
London, S.E.1.

CRUDENS LIMITED, MUSSELBURGH, SCOTLAND.

SITE AGENTS

with high class Building or Civil Engineering experience are required for large contracts in the North East of England. Application in first instance should give brief details of age, education and previous experience to Personnel Officer.

CUBITTS

A few appointments will shortly be made to some or all of the following positions. Only applicants with adequate qualifications and proved ability will be appointed. But men with the right experience are invited to write giving full details, in the strictest confidence, as they will find very good career prospects within this varied and expanding organisation.

AGENTS

heavy civil engineering or structural engineering.

GENERAL FOREMEN

building, structural or civil engineering (for work in U.K. or Overseas), including young men with I.O.B. or similar qualifications to be given progressive experience on small works, later qualifying them to take charge of large building contracts.

SITE ENGINEERS

preferably qualified, for U.K. and Overseas.

Please give positions held, and exact responsibilities to

Personnel Manager
HOLLAND & HANNEN & CUBITTS (GREAT BRITAIN) LIMITED,
1, Queen Anne's Gate,
London, S.W.1

Medium Sized Company in the Building and Civil Engineering Industry

require a competent experienced

SITE AGENT

to take charge of housing and general contracts. Must be capable of planning and controlling £500,000 worth of work per annum and be responsible for the whole of the work from inspection to completion, including co-ordination and sub-contractors.

The position is in a rapidly growing building and civil engineering Company and a starting salary of over £1,500 per annum is envisaged from applicants not over 45 years of age. Preference will be given to candidates who have a recognized qualification in the industry and a car will be provided.

Sites are in the Home Counties and the successful applicant would be eligible for the Company's Sickness and Pension Schemes. Reply in confidence to :—

Box 1880 'The Builder'

FOREMEN & SUPERVISORS

JOINER'S SHOP FOREMAN/MANAGER. 12 operatives South London. Able take complete control of production and costing.—Write age, experience and salary to Box 1817, "The Builder."

BUILDING.—Expanding Lincoln Building Company Requires outside SUPERVISOR, preferably with surveying knowledge and experience of general building construction to assist in outside control of contracts in the area, must be able to drive, excellent opportunities for keen and energetic person.—Apply stating age, experience and salary required, Box 1818, "The Builder."

GENERAL FOREMAN Required at Park Royal, N.W.10, for Factory and Office Developments. Under 50. Experienced R.C. work.—Write ALLNATT (LONDON) Ltd., Park Royal House, 23 Park Royal-road, N.W.10.

GENERAL FOREMAN Wanted, able to take complete control of Housing Estate in Birmingham. Set out, levels, etc., supervise all labour. Permanent position, good wages for right applicant.—Apply Box 1819, "The Builder."

GENERAL FOREMAN Required by well-known building contractors. Permanent pensionable position for a capable, conscientious and ambitious man with good knowledge of all trades.—Write giving details of training and experience to Box 856, DIXONS, 11 Hills-place, Oxford-street, London, W.1.

SECTION FOREMAN Required. — Apply LAURENCE WEAVER Ltd., Slough, Bucks.

AREA SUPERVISORS Required for Shuttering Contracts in Darlington, Manchester and Leeds areas. Good opportunities for future advancement to keen men able to control groups of contracts and produce results.—SGB SHUTTERING Ltd., Pontefract-road, Leeds, 10. Tel.: Leeds 72951.

CAPABLE GENERAL FOREMAN Required by old-established Contractors for speculative housing in the Birmingham and Kent areas. Permanent and pensionable position for suitable applicant.—Apply General Manager, DAVIS CONTRACTORS Ltd., 350 Kilburn High-road, N.W.6.

FIRST-CLASS GENERAL FOREMAN Required for high-class Contract—Croydon.—Apply in writing, giving details age, Contracts executed and salary required, to GRACE & MARSH Ltd., New Bridge Works, Waddon, Croydon.

BUILDING GENERAL FOREMEN. Only men with experience on contracts ranging from £50,000 to £500,000 need apply. Applicants must be willing to travel in the United Kingdom. Permanency offered and pension scheme.—Apply, stating experience and remuneration required, to THE MITCHELL CONSTRUCTION COMPANY Ltd., Wharf Works, Peterborough.

ACTIVE GENERAL FOREMEN Required Housing Estates Hampshire and Barnet area. Only good men need apply.—Box 933, "The Builder."

EXPERIENCED GENERAL FOREMAN Required to take full charge of high class Contract of approx. £240,000 in Oxford. Must be cost conscious, able to work to detailed programming and completion dates. Apply in writing, giving full particulars of positions held, contracts carried out and salary required. Good references essential.—Apply J. PARNELL & SON Ltd., Oliver-street, Rugby.

EXPERIENCED GENERAL AND FINISHING FOREMAN Required for contracts in Home Counties and South Midlands.—Applications stating experience, age, salary required and when available to F. J. MINNS & CO., Ltd., 9 West-way, Botley, Oxford.

PLUMBING SUPERVISOR Required by Specialist London Company. Unique opportunity for man with ability, enthusiasm and experience. Good salary, bonus and prospects.—Details, please, to Box 1675, "The Builder."

CONTRACTS SUPERVISOR Required by reputable and progressive Cambridge firm of Building Contractors. Applicant must be able to supervise a number of contracts concurrently, averaging £20,000 and mainly of traditional construction. Preference will be given to men with knowledge of contract planning and capable of handling all connected correspondence and outside personal contacts. This will be a responsible management post.—Applications for interview, which will be treated in confidence, should give age and precise details of relevant experience and be sent to Mr. B. H. Johnson, Messrs. JOHNSON & BAILEY, Ltd., Norfolk-street, Cambridge.

KIRK & KIRK LIMITED

require

GENERAL FOREMEN

Contracts between £100,000 and £1,000,000 in England. Permanent position with Superannuation Scheme.

Write, giving fullest possible details, to:—

Technical Director,
Kirk & Kirk Limited,
Atlas Works,
Putney, S.W.15.

CUBITTS

HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN) LTD.,

require

GENERAL FOREMAN

Experience in control of medium and large sized contracts—Building and Structural Engineering. The appointments are permanent and pensionable and offer good conditions and prospects for men willing to adopt modern techniques. Applications are invited from men with recognised qualifications.

Please write to:

PERSONNEL MANAGER,
1, Queen Anne's Gate,
LONDON, S.W.1.

THE SPOONER GROUP

Continued expansion to all parts of the British Isles permits us to offer employment to suitably qualified

GENERAL FOREMEN

particularly on Housing, Schools and Hospitals.

Applicants must be mobile and of sound experience in handling complete contracts.

Apply in confidence stating age, experience and indication of salary required to :

SPOONERS (HULL) LIMITED,
Stoneferry, Hull

J. T. PARSONS & SON LTD.

Westbury, Wilts.

invite applications for permanent positions at both WESTBURY and SALISBURY as

SUPERVISORS

sound practical ex-tradesmen with drive, initiative and ability to organise and achieve satisfactory site standards of workmanship and productivity.

GENERAL FOREMEN

with modern conception of organisation, planning and control and ability to produce first class results within Contract time.

Fullest co-operation from Management plus Bonus.

Applications in confidence with details of experience, age and salary required to Managing Director.

GENERAL FOREMAN Required for good-class housing estate in Buckinghamshire area. Previous experience in this class of work essential, including ability to set out estates and lay roads and sewers.—Apply in writing, A. E. A. PROWTING, Ltd., Bury-street, Ruislip, Middlesex, stating age, salary and experience.

GENERAL FOREMAN (Civil Engineering and Building). Applications are invited from experienced foreman to take complete control of contracts in the southern counties. This position is permanent and offers excellent opportunity.—Apply in writing stating age, experience, references and salary required. Box 1729, "The Builder."

GENERAL FOREMAN Required for Private Estate Development in Shrewsbury. About 100 houses annually, all trades including roadmaking and sewering.—Apply FLETCHER ESTATES (HARLESCOTT). Ltd., Whitchurch-road, Shrewsbury. Tel.: 4436.

OLD established Building Contractors Require experienced GENERAL FOREMAN for contract in London area.—Write, stating age, experience, salary, etc., to Secretary, C. P. ROBERTS & CO. Ltd., 31 High Holborn, W.C.1.

GENERAL FOREMAN to take complete charge and control all trades. Must have good experience of private house building and estate development. Accommodation available.—Full details to NERANK BUILDING CO. Ltd., Ruscote-avenue, Banbury, Oxon.

SUPERVISOR Required for Industrial Painting Contractors with premises in Central London area. View to partnership.—Box 1769, "The Builder."

SUPERVISOR able to estimate for and deal with small jobbing and maintenance work in London area from enquiry to final account. Required by leading Building Contractors.—Applications, stating age, experience, and salary required, to Box 1868, "The Builder."

GENERAL FOREMEN Required for contracts value £10,000-£50,000. South London area. Experience reinforced concrete work preferred.—Please reply, giving full details of experience and salary required, to WILLIAM WILLETT (BUILDERS & DECORATORS) Ltd., Sloane-square, S.W.1.

WORKING FOREMAN, aged 35-40 years, required for small contracts up to £10,000. First class man only need apply.—Write stating age, experience and salary required to Box 1886, "The Builder."

GENERAL FOREMAN Required by National Contractors for large contract on the Sussex coast. Applications are invited from top grade men thoroughly experienced in reinforced concrete construction and big job organisation. Good salary and conditions offered.—Apply giving full details of experience to Box 1881, "The Builder."

CIVIL ENGINEERING GENERAL FOREMAN

Fully experienced GENERAL FOREMAN Required, capable of controlling all Civil Engineering trades. Experience in heavy excavation, sheet and precast piling and reinforced concrete preferred. Previous experience as General Foreman essential, must be prepared to travel. Top wages, staff conditions with permanent appointment, and pension scheme to the right man.—Apply giving full details to Box 1882, "The Builder."

GENERAL FOREMAN Required for speculative housing scheme in Bromley, Kent. Position is open only to men with previous experience in this kind of work and dealing with all trades subject. Generous salary and exceptional opportunity for the right man interested in good class work.—WREN PROPERTIES, Ltd., 3 Hobart-place, S.W.1.

GENERAL FOREMAN for 36 flats in three blocks, Tooting area, contract value £80,000. Good prospects for keen and experienced man.—Apply to W. S. MARSTON & SON, Ltd., 1 Stephendale-road, Fulham. RENown 7133.

GENERAL FOREMAN, C. and J. (aged 35-45 years) Required for alterations and new work in London area, £5,000 to £40,000. First class man only need apply.—Write stating age, experience and salary required to GEORGE BARKER (BUILDERS), Ltd., 48-50 New-road, E.1.

GENERAL FOREMAN Required, experienced in high quality R.C. work, setting out, shuttering, etc. Permanent position to suitable applicant. Superannuation scheme in operation.—Apply in writing, stating wage, experience, age, etc., to J. L. EVE CONSTRUCTION CO., Ltd., 17 Hillside, Ridgway, Wimbledon, S.W.19.

EXPERIENCED GENERAL FOREMAN Required for a large municipal flat contract in East Ham.—Apply in writing, RICHARDSON, Herbert House, Steele Green, Erith, Kent.

PRECAST WORKS GENERAL FOREMAN Required. Exceptional opportunity with well established London firm specialising in Cast Stone and Exposed Aggregate work.—Send full details of previous experience, Box 1855, "The Builder."

GENERAL FOREMAN, experienced R.C. work, for four-storey office block, Enfield.—Age, experience, wages to A. T. ROWLEY (LONDON), Ltd., Cambridge Works, Lordship-lane, Tottenham, N.17. ('Phone TOT 3611.)

BUILDING GENERAL FOREMAN

Required, capable of controlling all trades and subcontractors. Previous experience in charge of contracts with heavy foundations, reinforced concrete frames and top quality work essential. Must be willing to travel. Top wages, staff conditions and permanent appointment with pension scheme for the right man.—Applications with age and previous experience as a General Foreman to Box 1883, "The Builder."

ERECTION SUPERVISOR Required for specialist timber roofing. Must be a Joiner by trade, accustomed to supervising several jobs at a time. Should be resident Lancashire, Cheshire or Midlands, but willing to travel extensively.—Apply with full details of previous experience, age and present earnings to the Staff Manager, CAWOOD WHARTON & CO., Ltd., Southlands, Harrogate.

SUPERVISOR/WALKING FOREMAN for small jobs department, age about 30, C. and J. Some experience all trades necessary. Good background and employer's viewpoint required, position has prospects. Flat (rented) available (Jersey, C.I.).—Write Box 1899, "The Builder."

GENERAL FOREMAN, fully experienced for housing and flat developments North West London area. State age and qualifications.—W. REED & CO., Ltd. Finchley 6271.

FOREMAN PAINTER Required by maintenance builders in Kensington. Good colourman and able to estimate.—Apply, giving details of past experience, to Box 1906, "The Builder."

STEVENAGE—HITCHIN. Expanding Property Company Require SITE AGENT to organise building of factories, offices, etc., by own small labour force and supervise sub-contractors. Must be able to estimate and run incentive bonus system. Good car allowance and bonus on completions. Ample scope to ambitious and conscientious man with initiative.—State age, training, experience, present salary and salary required, Box 1828, "The Builder."

CONTRACTS SUPERVISOR/ESTIMATOR

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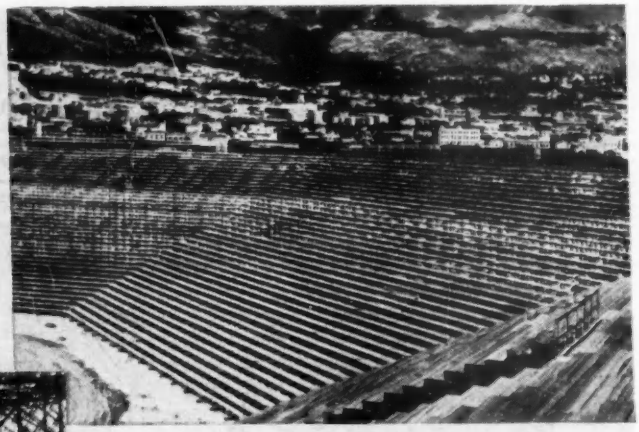

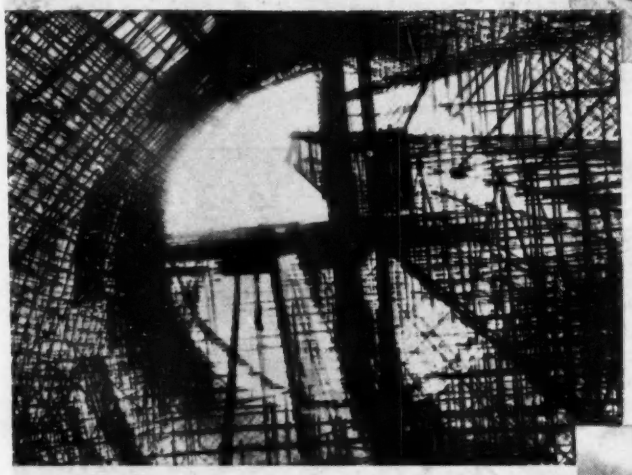

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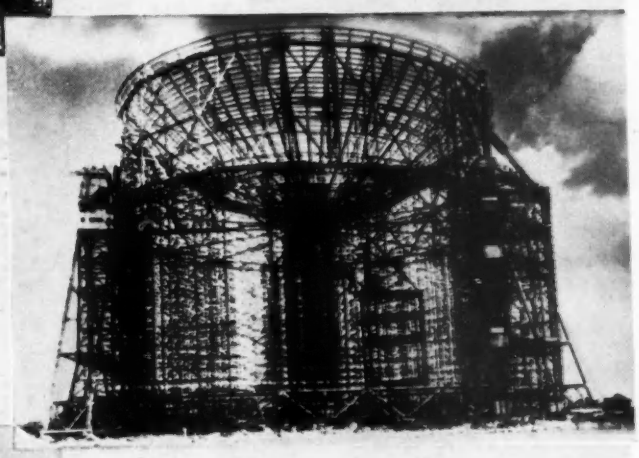

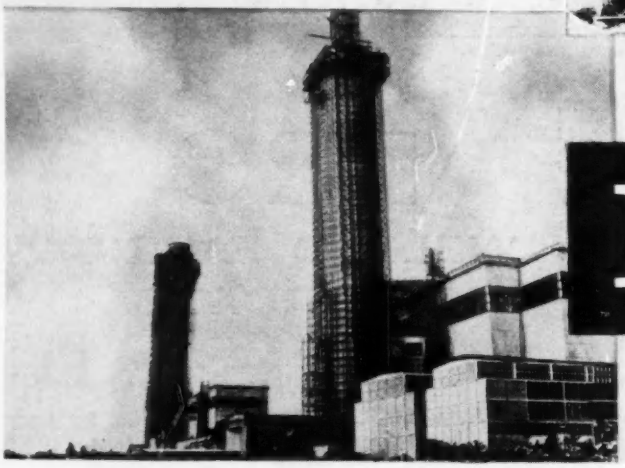

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